BY ORDER OF
SECRETARY OF THE AIR FORCE

AIR FORCE MANUAL 36-2108
31 OCTOBER 1998

Personnel

AIRMAN CLASSIFICATION

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This manual establishes the occupational structure of the Air Force airman force. The occupational structure is flexible to permit airmen to specialize and develop their skills and abilities while allowing the Air Force to meet changing mission requirements. Individual airmen have a joint responsibility with commanders and supervisors at all levels to fully develop their abilities consistent with Air Force needs and within the established patterns of specialization. This manual is written primarily for use by personnel officials (officers and senior noncommissioned officers) and agencies engaged in procurement, classification, and training of Air Force members. It implements Air Force Policy Directive (AFPD) 36-21, *Utilization and Classification of Air Force Military Personnel.*

★*SUMMARY OF REVISIONS*

This change incorporates interim change (IC) 98-2 which approves airman classification changes effective 31 October 1998 and minor specialty description corrections. Specifically it replaces attachment 1, Airman Change Summary and Conversion Guide (CS&CG) with the 31 October 1998 changes and provides a summary and conversion table with instructions for all AFSC changes, mergers, additions, realignments, and deletions of classification identifiers since 30 Apr 98. Changes include: deleting RI 9S200 (listed in attachment 3), AFSCs 2A090, 2A490 (part of attachment 11), and 3RXXX (attachment 28), retitling SDI 8B100 (part of attachment 4), establishing a new Cryptologic Linguist shredout (part of attachment 7), updating several specialty descriptions with current information, and revising all the maintenance related SEIs (attachment 40 has been completely revised) with up to date authorized AFSCs and designation criteria. Minor corrections in spelling and editing changes are also included. If a change to a specialty description is included in the CS&CG, a completely revised description is included in the IC and will replace existing specialty description. The complete IC has been incorporated into the publication. A star (★) indicates revisions from the previous edition.

Paragraph

Using This Manual 2
Describing the Classification Structure 2
Explaining the Specialty Description 3
Responsibilities 4
Requesting New or Revising Existing Classification 4
Supplementing This Manual 5

Attachments **Page**

★1. Change Summary and Conversion Guides 7
★2. Authorized Prefixes 28
3. Reporting Identifiers (RI) 37
4. Special Duty Identifiers (SDI) 40
5. Aircrew Operations Career Field (1A) 58
6. Command and Control Systems Operations Career Field (1C) 70
7. Intelligence Career Field (1N) 81
8. Safety Career Field (1S) 96
9. Aircrew Protection Career Field (1T) 99
10. Weather Career Field (1W) 105
11. Manned Aerospace Maintenance Career Field (2A) 108
12. Communications - Electronics Systems Career Field (2E) 149
13. Fuels Career Field (2F) 179
14. Logistics Plans Career Field (2G) 182
15. Missile and Space Systems Maintenance Career Field (2M) 185
16. Precision Measurement Equipment Laboratory Career Field (2P) 191
17. Maintenance Management Systems Career Field (2R) 193
18. Supply Career Field (2S) 196
19. Transportation and Vehicle Maintenance Career Field (2T) 201
20. Munitions and Weapons Career Field (2W) 216
21. Information Management Career Field (3A) 222
22. Communications - Computer Systems Career Field (3C) 224
23. Civil Engineering Career Field (3E) 235
24. Historian Career Field (3H) 257
25. Services Career Field (3M) 260
26. Public Affairs Career Field (3N) 263
27. Security Forces Career Field (3P) 270
★28. Printing Management Career Field (3R) 273
29. Mission Support Career Field (3S) 274
30. Manpower Career Field (3U) 284
31. Visual Information Career Field (3V) 287
32. Medical Career Field (4X except 4Y) 294
33. Dental Career Field (4Y) 329
34. Paralegal Career Field (5J) 333
35. Chapel Service Support Career Field (5R) 335
36. Contracting Career Field (6C) 338
37. Financial Career Field (6F) 341
38. Special Investigations Career Field (7S) 345
39. Additional Mandatory Requirements for AFSC Entry 347
40. Special Experience Identifiers 353
41. Alphanumeric Special Experience Identifiers 387
42. Chief Enlisted Manager (CEM) Codes 391
43. Index 394
44. Interim Change 400

1. Using This Manual:

1.1. This manual contains the Change Summary and Conversion Guide (attachment 1), Authorized Prefixes (attachment 2), Reporting Identifiers (attachment 3), Special Duty Identifiers (attachment 4), Air Force Specialty (AFS) descriptions (attachments 5 - 38), their assigned Air Force Specialty Codes (AFSC), Additional Mandatory Requirements for AFSC Entry (attachment 39), Special Experience Identifiers (attachments 40 and 41), and Chief Enlisted Manager (CEM) codes (attachment 42) used in the airman classification system. Use the specialty descriptions and codes to identify different types of Air Force jobs and the qualifications of airmen to fill these jobs. Individual specialty descriptions and other attachments to this manual provide the occupational standards required or desired for successful performance in an AFS. Use these standards to procure, classify, and employ airmen; to develop career programs for initial training, retraining, and skill upgrade; and to structure unit manpower documents (UMD) positions.

1.2. It is important that users of this manual review attachment 39, as well as the specialty descriptions, to obtain all the mandatory requirements and restrictions for AFSC entry or retraining. Attachment 39 lists AFSCs not open to non-United States citizens, AFSCs authorized for use without shredouts, combat-related AFSCs not open to enlisted women, minimum physical profiles, and strength and mental aptitude scores for AFSC entry or retraining.
1.3. Attachment 43 contains an alphabetical index of classification codes (Air Force specialty codes, reporting identifiers, and special duty identifiers) for easy reference.
1.4. AFI 36-2101, *Military Personnel Classification*, contains procedural guidance for awarding and withdrawing classification codes and tables that show the grade spread to skill-level relationship used in authorizing UMD positions. For procedural guidance refer to AFMAN 36-2622, volumes 1, *Personnel Data Systems User Manual*, for personnel and AFI 38-201, *Determining Manpower Requirements*, for manpower.

2. Describing the Classification Structure. An AFSC is the basic grouping of positions requiring similar skills and qualifications. In turn, the AFS is grouped into career field ladders, career field subdivisions, and career fields to provide for career development in different aspects of a career field. An AFS may be subdivided by alphabetical "shredouts" to identify specialization in a specific type of equipment or function. Air Force specialty descriptions are published in attachments 5 through 38, according to career field; each career field attachment provides a general definition of the overall career field. Air Force Visual Aid 36-212, *Airman Classification Structure Chart*, shows the overall airman classification structure. In addition to AFSCs, other identification codes are used in the classification system:
2.1. Prefixes identify specific skills and abilities not restricted to a single career field. See attachment 2 for guidelines on use of prefixes with specific AFSCs.
2.2. Reporting identifiers (RI) identify positions, persons, or both not otherwise identifiable in the classification system. RIs are primarily intended to identify conditions for which specific job descriptions are not practical, such as patient or prisoner. See attachment 3.
2.3. Special duty identifiers (SDI) identify positions and persons performing duties not clearly within a specific career field, such as a courier. These tasks are outlined in the special duty descriptions in attachment 4.
2.4. Special experience identifiers (SEI) identify special experience and training not otherwise reflected in the classification system. SEIs complement other classification identifications. They do not replace them. SEIs are primarily used for contingency purposes. See attachments 40 and 41.
2.5. CEM codes identify chief master sergeants (CMSgt) and selectees, and CMSgt positions to allow personalized management by the Headquarters Air Force Personnel Center (HQ AFPC), Chief Master Sergeant Matters Division (HQ AFPC/DPAC). See attachment 42.

3. Explaining the Specialty Description. Specialty descriptions apply to the 9-, 7-, 5-, and 3-skill levels of the AFSC. Specialty descriptions comprise of the following parts:
3.1. Heading:
3.1.1. Consists of the specialty title, the **date changed**, applicable AFSCs and CEM code, and skill level name.
3.1.2. Lateral retraining specialties may, or may not contain a 5-skill level, depending on the AFSC structure.
3.1.3. When shredouts are authorized, an asterisk is printed after the AFSC.
3.2. Specialty Summary:
3.2.1. Provides a concise statement of the scope and characteristics of the specialty.
3.2.2. Identifies the conversion table subgroup as listed in the Department of Defense (DoD) Occupational Conversion Manual that groups similar occupations in the military services and civil service.
3.3. Duties and Responsibilities:
3.3.1. Describes representative duties and responsibilities of the specialty for the skills identified in the heading. Does not attempt to include all aspects of all jobs in the specialty.
3.3.2. Does not include duties and responsibilities inherent for all airmen, such as displaying good conduct, correct military appearance, on-the-job training (OJT), safety, professional military education (PME), supervising or indoctrinating personnel, making work schedules, or assigning work duties.
3.3.3. May not include responsibilities common to all specialties in a given field; these may appear in the introduction to the career field. For example, all airmen in the medical and dental (4XXXX) career fields have a common responsibility for emergency medical care.
3.4. Specialty Qualifications. Establishes occupational qualification standards for effective performance in a specialty. Only mandatory standards are listed except for education. Desirable education may be cited. Desirable qualifications to enhance a person's ability to succeed in the specialty and serve as a guide for career development may be listed in the specialty career field education training plan (CFETP). Mandatory qualifications must be met to perform in the specialty, and may be required for entry into a specialty, for upgrade to a skill level of the specialty at one or all skill levels, or for retention of the

AFSC. Specialty descriptions and attachment 39 list the mandatory qualifications for entry into the AFSC. Qualifications in specialty descriptions may consist of all or part of the following:

3.4.1. Knowledge. Contains the required understanding and practical skills for award of the AFSC at any skill level. Specific levels of knowledge for each skill level are identified in the specialty training standard (STS) of the CFETP.

3.4.2. Education. Outlines academic study or instruction that is either a mandatory or desirable requirement for entering the specialty.

3.4.3. Training. Contains only mandatory AFSC awarding formal military training. Since PME is considered desirable for all airmen, it is not listed in specialty descriptions.

3.4.4. Experience. Describes mandatory military or civilian work experience for entry or award of an AFSC. Functions or items listed that are preceded by "such as" are examples representative of the specialty. Such lists are not all encompassing, nor is it intended that experience must be gained in each function listed. Specific experience for each skill level is identified in the STS of the CFETP.

3.4.5. Other. Lists measurable qualifications such as physical standards, eligibility for security clearances, certifications, licenses, and so forth. When eligibility for a security clearance is a mandatory requirement for award and retention of an AFSC, an interim clearance is sufficient for award of that AFSC.

3.4.6. Specialty Shredouts. Lists alphabetical suffixes that may be used with the basic AFSC to identify specialization in specific equipment or functions.

4. Responsibilities:

4.1. HQ AFPC, USAF Classification Section (DPPAC), publishes semiannual revisions to this manual, effective 30 April and 3l October. Revisions, when available, are distributed to the field 45 days before the effective date to give users ample time for required preconversion actions and planning**.** Each specialty description revised since 30 April 1994 contains a change date under the title. This change date represents the last date the specialty was revised. A change summary and conversion guide is included in each manual change as attachment l to this manual. The guide explains changes and provides special conversion instructions for action officers to supplement procedures in current manpower and personnel directives. Additionally, an advance notice change summary and conversion guide is forwarded to MAJCOMs and MPFs at least 45 days prior to the semiannual conversion dates.

4.2. On receiving manual changes or advance notifications of approved changes, commands will review manpower documents and reflect necessary classification code changes according to AFI 38-201.

4.3. During the effective month, action offices will revise all statistical reports using AFSCs to reflect authorized changes.

4.4. Training managers will review training courses that provide skills and abilities to support performance in AFSCs affected by manual changes. Courses will be reevaluated and revised, if necessary.

4.5. Commands and Air Staff agencies have a continuing responsibility to review skill requirements and the currency of existing classification. When existing classification becomes obsolete or developments occur that require new or revised Air Force-wide skill identification, recommended changes are submitted through channels to HQ AFPC/DPPAC, 550 C Street West, Suite 10, Randolph AFB TX 78150-4712, according to paragraphs 5 and 6 of this manual.

5. Requesting New or Revising Existing Classification:

5.1. Modifying existing classification has a significant effect on all facets of personnel management. Recommended changes must reflect personnel classification concepts in AFI 36-2101 and provide sufficient data for analysis by HQ USAF. Any agency contemplating a change to the classification system should consider the following when initially developing a proposal:

5.1.1. What is the specific requirement? Include tasks to be performed, locations or bases having the requirement, and number of personnel who will perform these duties, etc.

5.1.2. Is a new AFS necessary? Could an existing classification identifier or management tool fill the requirement? ***FOR EXAMPLE:***

5.1.2.1. SEIs are awarded based on completion of formal training or a unique course, and experience performing specific duties (attachments 40 and 41).

5.1.2.2. Suffixes are added to an existing AFSC to provide system or task specific training and assignment section.

5.1.2.3. Prefixes are used to identify required experience across many different AFSs.

5.1.2.4. Personnel Processing Codes (PPC). PPCs are used to identify special requirements needed for assignment to a specific duty location. They may include system-specific or special purpose training en-route to assignment.

5.1.3. Will the population size of a new AFSC or shredout support a trained personnel requirement (TPR), technical school course development, and overseas requirements?

5.1.4. What are the assignment locations of the proposed structure, to include continental United States (CONUS) geographical variety and number of overseas positions (long or short).

5.1.5. What are the advantages and disadvantages of proposed action? Use Air Force, command, and functional perspectives.
5.2. Submit recommended revisions or additions to the classification system in this manual in the following manner:
5.2.1. Base Level. Military Personnel Flight (MPF) will:
5.2.1.1. Ensure the recommended changes include information according to paragraphs 5.3 and 5.4.
5.2.1.2. Send the change request to the major command (MAJCOM) director of personnel (classification section) for review, comment, and recommendation.
5.2.1.2.1. Requests to change Airman Medical Service specialties (4XXXX) must be forwarded to HQ USAF/SGWP, 110 Luke Avenue, Room 400, Bolling AFB DC 20332-7050.
5.2.2. MAJCOM Level. MAJCOM classification section will:
5.2.2.1. Ensure the recommendation includes information required in paragraphs 5.3 and 5.4.
5.2.2.2. Obtain an evaluation by the appropriate functional manager.
5.2.2.3. Send the change request to HQ AFPC/DPPAC, 550 C Street West, Suite 10, Randolph AFB TX 78150-4712, to review, evaluate, and formally process a change, or send it to the Air Force functional manager to review or evaluate further. In either instance, MAJCOMs must include a recommendation of approval or disapproval.
5.2.3. Air Staff Level. Proposals initiated by the Air Staff must include information according to paragraphs 5.3 and 5.4, before forwarding it to HQ AFPC/DPPAC.
5.2.4. Change Requests. All requests for revision or addition must arrive at HQ AFPC/DPPAC by 28 February for consideration of the October revision or by 31 August for consideration of the following April revision.
5.3. Recommendations for changes to AFSCs, prefixes, suffixes, and SDIs must include the following information:
5.3.1. Brief Description of the Proposed Change. Show its relationship to the existing classification structure. Is it consistent with personnel classification concepts of AFI 36-2101?
5.3.2. Rationale for Proposed Change. Include reasons why existing classification is inadequate. Fully justify the request. Outline all considerations examined in your initial proposal development.
5.3.3. Identify all requirements. For example, tasks to be performed and locations or bases with the requirement.
5.3.4. Description of Duties and Tasks:
5.3.4.1. Send a draft specialty description; include major tasks, equipment, special tools, or materials involved. ***NOTE:*** Specialty descriptions should not exceed two pages.
5.3.4.2. Include details of knowledge, education, and experience required to perform duties and tasks.
5.3.5. Evaluation of Training Requirements:
5.3.5.1. Examine all training alternatives that would meet the stated requirement. Compare the costs of each option. Evaluate benefits from the change versus costs of additional training required.
5.3.5.2. Include evaluation of existing courses, need for new courses, and estimated OJT or formal training time.
5.3.5.3. Categorize training as “mandatory” and only identify formal military training leading to award of an AFSC. Identify “desirable” training in the CFETP.
5.3.6. Detailed Summary of Personnel and Manpower Impact:
5.3.6.1. Estimate the number and organizational level of positions identified in the proposed classification change.
5.3.6.2. Estimate the number, location, and AFSC of manpower positions to be deleted or added, or both.
5.3.6.3. List AFSCs of personnel currently performing duties included in the proposed classification, and estimate the number, by AFSC, that would convert to the new AFSC, if established.
5.3.7. Recommendation on Occupational Analysis. Include a recommendation on desirability of a specialty survey, conducted under AFI 36-2623, *Occupational Analysis*, for proposed classification.
5.4. Recommended changes, additions, or deletions to SEIs must contain the following information:
5.4.1. Brief description of proposed change and contingency value, if any.
5.4.2. Brief rationale for change including its intended use.
5.4.3. Number of manpower authorizations to be coded Air Force-wide.
5.4.4. Criteria for awarding SEI:
5.4.4.1. Formal course requirements. Include course title, number, and personnel data system (PDS) code reflected in AFCAT 36-2223, *USAF Formal Schools***.**
5.4.4.2. Experience requirements. State, in whole months, the experience requirements (minimum necessary).
5.4.4.3. Recommendation requirements. Explicitly state need for supervisor or commander recommendation, if applicable.

6. Supplementing This Manual. The Air National Guard and USAF Reserves may supplement this manual according to AFI 37-160, volume 1, *The Air Force Publications and Forms Management Programs--Developing and Processing Publications*. Draft supplements will be prepared according to AFI 37-160, volume 1, chapter 3, section E, and forwarded through the National Guard Bureau, Headquarters Air Force Reserves, or Headquarters Air Reserve Personnel Center

(Classification Section) to Headquarters Air Force Personnel Center, USAF Classification Branch (HQ AFPC/DPPAC), 550 C Street West, Suite 10, Randolph AFB TX 78150-4712.

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DCS/Personnel

★Attachment 1

AIRMAN
CHANGE SUMMARY AND CONVERSION GUIDE
FOR 31 OCTOBER 1998

Introduction

STANDARD CONVERSION INSTRUCTIONS: The standard instructions listed below are referred to by note number in the "Conversion Instruction Notes" column of this Change Summary and Conversion Guide. Notes are used singly or in combination to cover conversion instructions. However, written specific instructions may be added or substituted when a change requires special clarification.

NOTE	INSTRUCTION
1.	Code deleted from Airman Classification Structure.
2.	Code added to Airman Classification Structure.
3.	Converts directly in PDS. No further MPF action required; report on individual person (RIP) source document provided.
4.	No conversion action required.
5.	Title change.
6.	See explanation of prefix in attachment 2 for award and deletion criteria.
7.	Review and evaluation of an individual's qualification are required before designating SEI. Manpower and Personnel representatives, with local functional help, will review authorized AFSC positions on unit manpower document and designate SEI to appropriate positions.
8.	Indirect conversion. Action required: a. Personnel. First AFSC listed under "New AFSC" column is the "preselect AFSC" that will be automatically selected and shown in preconversion listing available to MPFs by 15 September 1998. MPFs, with the help of local functional representatives, will review and evaluate preselect preconversion to determine if (1) DAFSC/CAFSC match manpower position conversion, (2) CAFSC is at correct skill level, and (3) awarded AFSCs (P/2/3/4) are correct, according to individual's qualification. More than one AFSC associated with this conversion may be awarded if individual qualifies based on background and experience. AFI 36-2101 applies. If review and evaluation finds preconversion preselect AFSCs are correct, MPFs will not change AFSCs in PDS; if incorrect, MPFs must update PDS to reflect conversions. MPFs must prepare source documents for all AFSC indirect conversions. See AFCSM 36-699, *Personnel Data Systems*, volume 1, table 5.1. b. Manpower. With the help of the functional manager, MAJCOM and Field Operating Agency (FOA) manpower will determine UMD changes required to effect conversion. They will reflect positions in the projected AFSC field of the manpower data system (MDS) as soon as possible after notification by HQ AFPC/DPPAC of approved indirect conversion but not later than 15 August 1998. c. Pipeline Personnel. Pipeline personnel already on assignment as of effective date will convert as follows: For personnel with a report not later than date (RNLTD) of 28 February 1999 or earlier, HQ AFPC/DPAA will change projected AFSC in PDS to match position to which member will be assigned. On arrival, MPF will award AFSC coinciding with the position of assignment, unless previously awarded. Assignment of personnel with RNLTD of 1 March 1999 or later, will be reevaluated by HQ AFPC/DPAA and either confirmed, canceled, or diverted, based on post-conversion requirements at the tentative gaining unit and the individual's qualifications for the AFSC in which he or she will be shipped.
9.	Headquarters Air Force (HAF) and BLMPS table changes required.
10.	Manpower table changes required.

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
Prefix B	B-2 Personnel	No Change	No Change	List of authorized AFSCs is revised to: Delete: 2A090, 2A490. Add: 2A390.	MPF: 1, 2, 6. AFPC: 1, 2, 9. Manpower: 1, 2, 10.
Prefix K	Aircrew Instructor	No Change	No Change	List of authorized AFSCs is revised to: Delete: 9S200, 2A490. Add: 2A157/77, 2A590.	
Prefix Q	Aircrew Standardization/ Flight Examiner	No Change	No Change		
Prefix V	Automated Functional Applications Analyst/ Monitor	No Change	No Change	List of authorized AFSCs is revised to delete 2A490.	MPF: 1, 4. AFPC: 1, 9. Manpower: 1, 10.
Prefix X	Aircrew	No Change	No Change	List of authorized AFSCs is revised to: Delete: 9S200, 2A090, 2A490. Add: 2A590.	MPF: 1, 2, 6. AFPC: 1, 2, 9. Manpower: 1, 2, 10.
RI 9S200	Applied Sciences	RI 9S100	Technical Applications Specialist	RI 9S200 is deleted as an authorized identifier in the airman classification structure. All 9S200 functions, duties, and responsibilities are merged into RI 9S100. Concurrently, RI 9S100 is retitled and explanation is revised to include the 9S200 functions. There is no changes in the ASVAB, strength aptitude, or physical profile for entry into 9S100.	**Direct Conversion** MPF: 1, 3, 5. AFPC: 1, 3, 5, 9. Manpower: 1, 3, 5, 10.
SDI 8B100	Military Training Manager	No Change	Military Training Leader	Specialty description is revised to retitle the specialty and update the title of the formal training course. There are no other changes to the specialty description.	MPF: 4, 5. AFPC: 5, 9. Manpower: 5, 10.
1C0X1	Airfield Management	No Change	No Change	Specialty qualifications are revised to delete the mandatory qualification requirement to keystroke at a minimum speed of 20 words per minute on a keyboard.	All: 4.

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
None None None None	None None None None	1N373M 1N353M 1N333M 1N313M	Slavic Cryptologic Linguist Craftsman, Albanian Slavic Cryptologic Linguist Journeyman, Albanian Slavic Cryptologic Linguist Apprentice, Albanian Slavic Cryptologic Linguist Helper, Albanian	Specialty description is revised to establish suffix M - Albanian, as an authorized identifier in the airman classification system.	MPF: 2, 4. AFPC: 2, 4, 9. Manpower: 2, 10. ***NOTE***: The M shredout is established to identify and train intelligence mission requirements for Albanian Linguists. There will be no conversion to these new identifiers at this time. After the conversion effective date, Manpower and Personnel officials, with the help of local functional managers, will identify the appropriate authorizations to be coded with this new suffix.
1T0X1	Survival, Evasion, Resistance, and Escape Training	No Change	No Change	The specialty description is revised to add references to performing instructor and personal recovery duties, update terminology, and duties and responsibilities throughout. Specialty qualifications are revised to update terminology and add mandatory completion of the 7-skill level craftsman course for award of AFSC 1T071.	All: 4.
1T2X1	Pararescue	No Change	No Change	Specialty description is revised to update duties and responsibilities and clarify mandatory award and retention qualification criteria. The specialty qualifications were changed to add mandatory Emergency Medical training and National Registry (or state) certification for award and retention of the 3/5/7/9 levels. There are no changes to the entry standards for the specialty.	
1W0X1	Weather	No Change	No Change	Specialty description is revised to add eligibility for a Secret security clearance according to AFI 31-501 as a mandatory requirement for entry, award, and retention of these AFSCs. This AFSC is not Open to Non-United States Citizens. There are no other changes to qualifications.	All: 4.

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
2A090	Avionics Test Station and Components, Supt	2A190	Avionics, Supt	AFSC 2A090 is deleted from the airman classification structure. Functions of this AFSC are assumed by AFSC 2A190. Specialty description is revised to change the title, update terminology, and duties and responsibilities. Specialty qualifications are revised to add AFSC 2A071X and avionics test stations experience for award of AFSC 2A190. There are no other changes to qualification criteria.	**Direct Conversion** MPF: 1, 3, 5. AFPC: 1, 3, 5, 9. Manpower: 1, 5, 10. ***NOTE***: SEIs and prefixes authorized with AFSC 2A090 positions converting to AFSC 2A190 will remain authorized with AFSC 2A190. Members awarded SEIs and prefixes with AFSC 2A090 will be awarded the same SEIs and prefixes with AFSC 2A190.
2A0X1	Avionics Test Station and Components	No Change	No Change	Specialty qualifications are revised to delete reference to AFSC 2A090.	All: 4.
2A0X1A	Avionics Test Station and Components, F-15/F-111	No Change	Avionics Test Station and Components, F-15	Suffix A is retitled.	MPF: 4, 5. AFPC: 5, 9. Manpower: 5, 10.
2A0X1B	Avionics Test Station and Components, F-16/F-117/A-10/B-1B	No Change	Avionics Test Station and Components, F-16/F-117/A-10/B-1B/C-17	Suffix B is retitled.	
2A3X3	Tactical Aircraft Maintenance	No Change	No Change	Specialty description is revised to update terminology, and duties and responsibilities. Specialty qualifications are revised to include knowledge of deficiency reporting. Mandatory qualification standards are revised to add completion of a 7-skill level suffix specific craftsman aircraft maintenance course. There are no other changes to the qualification criteria.	All: 4.

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
2A490	Aircraft Avionics, Supt	2A590 2A390	Aerospace Maintenance, Supt Tactical Maintenance, Supt	AFSC 2A490 is deleted as an authorized identifier in the airman classification system. All functions are merged into AFSC 2A590. All 2A490 authorizations and personnel are indirectly converted to AFSC 2A590 or 2A390. The 2A590 specialty description is revised to update terminology and add AFSCs 2A47X to the mandatory experience requirement for award of the 2A590. There are no other changes to qualification criteria.	**Indirect Conversion** MPF: 1, 8. AFPC: 1, 8, 9. Manpower: 1, 8, 10. ***NOTE:*** Only AFSC 2A490 authorizations currently supporting fighter units may convert to 2A390. No more than 10 authorizations are expected to convert.
2A790	Aircraft Fabrication, Supt	No change	No change	Specialty description is revised to update duties and responsibilities to include airframe maintenance responsibilities. There are no changes to qualification criteria.	All: 4.
2A7X3	Aircraft Structural Maintenance	No change	No change	Specialty description is revised to update terminology and duties and responsibilities. Specialty qualifications revised to add mandatory knowledge of low observable materials and completion of a craftsman aircraft structural maintenance course for award of the 7-skill level.	
Fuels Career Field (2F) Intro	Fuels Career Field	No Change	No Change	Specialty description is revised to update terminology and provide a more accurate overview of the career field.	
2F0X1	Fuels	No Change	No Change	Specialty description is revised to update terminology and add additional duties and responsibilities. Specialty qualifications are revised to add completion of computer science courses as desirable for entry into this specialty. There are no other changes to qualification criteria.	
2S090	Supply Management, Superintendent	No Change	No Change	Specialty description is revised to update terminology and add additional duties and responsibilities. There are no changes to qualification criteria.	

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
2S0X1	Supply Management	No Change	No Change	Specialty description is revised to update terminology and include duties and responsibilities associated with materiel storage and distribution activities. Specialty qualifications are updated to include mandatory knowledge and experience requirements criteria. There are no changes to the entry standards for this specialty.	All: 4.
2S0X2	Supply System Analysis	No Change	No Change	Specialty description is revised to update terminology and duties and responsibilities. Specialty qualifications are updated to delete prior qualification at the 5-skill level and a minimum of 3 years of experience as a 2S0X1 for entry into the career field and retitle the 3-skill level apprentice course.	All: 4.
2T0X1	Traffic Management	No Change	No Change	Specialty description is revised to update terminology in duties and responsibilities. There are no changes to qualification criteria.	
2T2X1	Air Transportation	No Change	No Change		
3R000	Printing Management, Mgr	None	None	AFSCs 3R0XX are deleted as authorized identifiers in the airman classification structure.	MPF: 1, 4. AFPC: 1, 9. Manpower: 1, 10. ***NOTE:*** Prior to effective date of this change, manpower and personnel officials must ensure all 3R0XX authorizations are removed from manpower documents, and personnel performing 3R0XX duties are returned to duty in another awarded AFSC, entered into retraining, separated, or retired.
3R091	Printing Management, Supt	None	None		
3R071	Printing Management, Crftmn	None	None		
3R051	Printing Management, Jrnymn	None	None		
3R031	Printing Management, Apr	None	None		
3R011	Printing Management, Helper	None	None		
3S0X2	Personnel System Management (PSM)	No Change	No Change	Specialty description is revised to update terminology, duties and responsibilities. The specialty qualifications are revised to update the knowledge requirement.	All: 4.
Atch 39	Additional Mandatory Requirements for AFSC Entry	No Change	No Change	Atch 39 is revised to: 1. Delete AFSCs 3R0X1 and RI 9S200. 2. Reflect AFSCs 1W0X1 are not open to non-US citizens.	All: 4.

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
SEI 001	Arms Control	No Change	No Change	List of authorized AFSCs/CEMs is revised to add 2R1X1, 3A0X1, and 3P0X1.	MPF: 2, 7. AFPC: 2, 9. Manpower: 2, 7, 10.
SEI 006	Airborne Radar Systems	None	None	SEIs are deleted from the airman classification system. AFSCs impacted by this change are 1A5X1 and 1A3X1.	MPF: 1, 4. AFPC: 1, 9. Manpower: 1, 10.
SEI 007	Airborne Command and Control Communications Equipment	None	None		
None	None	SEI 011	Modeling and Simulation (M&S)	SEI 011 is established as an authorized identifier in the airman classification system. Award requires 15 months of experience in a valid M&S position, and recommendation by the M&S activity director and unit commander. Authorized AFSCs are 3A0XX, 3C0XX, 3S0XX, and 3S2X1.	MPF: 2, 7. AFPC: 2, 9. Manpower: 2, 7, 10.
None	None	SEI 025	Circuit Card Repair (CCR) Maintenance Technician	1. SEI 025 is established as an authorized identifier in the airman classification system. 2. AFSCs authorized for use with this SEI and award criteria are as follows: For AFSCs 2A051A/B, 2A071A/B, 2A151, 2A171, 2A152, 2A172, 2A153, 2A173, 2A157, 2A177, 2A351, 2A371, 2A352, 2A372, 2A451, 2A471, 2A452, 2A472, 2A453, 2A473, 2A553A/B, 2A573A/B, 2A652, 2A672, 2A656, 2A676, 2P051, 2P071, 2W151, and 2W171. Award requires completion of courses J4AMF/ASF/AST30000-110 (PDS code 17G) and J4AMF/ASF/AST30000-113 (PDS code 17F); 12 months of experience; and supervisor's recommendation.	
SEI 046	Tactical Air Control System Airborne Battlefield Command and Control Center (TACS)	No Change	No Change	List of authorized AFSCs is revised to: Delete: 2A490. Add: 2A590.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
SEI 057	Seismic Technique	No Change	No Change	Explanation/designation criteria is revised to read: Requires completion of course X3AZR 9S100-018 (PDS Code 50Z), Subsurface Systems Maintenance, X3AZR9S100-016 (PDS Code 50X), Subsurface Analysis; 6 months of experience; and supervisor's recommendation.	MPF/Manpower: 7. AFPC: 9.
SEI 058	Atmospheric Research Equipment	No Change	No Change	1. Explanation/designation criteria is revised to read: Requires position qualification in atmospheric research equipment maintenance; 6 months of experience; and supervisor's recommendation. 2. List of authorized AFSCs is revised to: Delete: RI 9S200. Add: RI 9S100.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.
SEI 059	Cryogenics Maintenance	No Change	Forward Area Technician	1. SEI is retitled. 2. Explanation/designation criteria is revised to read: Requires completion of course X3AZR9S100-015 (PDS Code 5T0), Special Equipment Maintenance; 6 months of experience; and supervisor's recommendation. 3. List of authorized AFSCs is revised to: Delete: RI 9S200. Add: RI 9S100.	
SEI 060	Laboratory Maintenance	None	None	SEIs 060, 068, 069, 077, 078, and 079 are deleted from the airman classification system.	MPF: 1, 4. AFPC: 1, 9. Manpower: 1, 10.
SEI 068	Subsurface Systems				
SEI 069	R & D				
SEI 077	Gas Analysis Laboratory				
SEI 078	Applied Physics Lab				
SEI 079	Chemistry Laboratory				

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
SEI 080	Program Management and Engineering	No Change	Collection Manager	1. SEI is retitled. 2. Explanation/designation criteria is revised to read: Requires completion of course X50ZG14N4-010 (PDS Code NXY), Principles of Collection Management or equivalent; 6 months of experience; and supervisor's recommendation. 3. List of authorized AFSCs is revised to: Delete: RI 9S200. Add: RI 9S100.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.
SEI 090	Tanker/Airlift Control Element (TALCE)	No Change	No Change	List of authorized AFSCs/CEMs is revised to: Delete: 2A490. Add: 2A590.	
SEI 095	Operational Test and Evaluation (OT & E)	No Change	No Change	List of authorized AFSCs/CEMs is revised to delete 2A490.	MPF: 1, 4. AFPC: 1, 9. Manpower: 1, 10.
SEI 167	Satellite Systems Technician	No Change	Satellite Technique	1. SEI is retitled. 2. Explanation/designation criteria is revised to read: Requires completion of course X3AZR9S100-017 (PDS Code 50Y), Atmospheric and Space Systems Analyst; 6 months of experience; and supervisor's recommendation.	All: 4.
SEI 172	Aircraft Control and Warning Radar	None	None	SEIs 172 and 173 are deleted from the airman classification system. AFSCs impacted by this change are 2E0X1.	MPF: 1, 4. AFPC: 1, 9. Manpower: 1, 10.
SEI 173	Automatic Tracking Radar	None	None		
SEI 188	Telephone Switching	None	None	SEIs 188 and 189 are deleted from the airman classification system. AFSCs impacted by this change are 2E6X3.	
SEI 189	Telephone and Data Circuitry Equipment	None	None		
SEI 191	AN/TSC-114 Military Airlift Command Air-lift Control Element (ALCE) Reaction Communication (MARC) System	No Change	No Change	List of authorized AFSCs/CEMs is revised to : Delete: 2A490. Add: 2A590.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
SEI 300	Technical Order Acquisition Verification Management	No Change	No Change	Explanation/designation criteria is revised to update reference from AF Systems Command or Air Force Logistics Command to Air Force Material Command.	All: 4.
None	None	SEI 307	Flight Safety	1. SEI 307 is established as an authorized identifier in the airman classification system. 2. AFSCs/CEMs authorized for use with this SEI and award criteria are as follows: For AFSCs 2A3XX, 2A4XX, 2A5XX, and 2A6XX, award requires either (1) completion of course L3AZR 1S071-004, Flight Safety NCO course (PDS code 8RH) and 6 months of experience and supervisor's recommendation, or (2) 12 months of experience and supervisor's recommendation.	MPF: 2, 7. AFPC: 2, 9. Manpower: 2, 7, 10.
SEI 308	Base Engine Manager	No Change	No Change	1. Explanation/designation criteria is revised to: Add completion of course J3AZR 2E066-008 (PDS Code T5B). 2. List of authorized AFSCs/ CEMs is revised to: Delete: 2S000, 2S090, and 2S0X1. Add: 2A5X2.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.
SEI 326	Red Horse Experience	No Change	No Change	List of authorized AFSCs/CEMs is revised to add 2A6X2.	MPF: 2, 7. AFPC: 2, 9. Manpower: 2, 7, 10.
SEI 377	"Combat Talon" Qualified	None	None	SEI is deleted from the airman classification system. AFSCs impacted by this change are: 2A1X2, 2A1X3, 2A190, 2A1X7, 2A4XX, 2A5X1B, 2A551J, 2A571, and 2A590.	MPF: 1, 4. AFPC: 1, 9. Manpower: 1, 10. ***NOTE***: The weapon system SEIs 514 and 515 will be used to capture previous experience identified by this SEI.
SEI 393	Unit Training	None	None	SEIs 393, 394, 395, 396 are deleted from the airman classification system. AFSCs impacted by this change are 3S231/51/71.	MPF: 1, 4. AFPC: 1, 9. Manpower: 1, 10.
SEI 394	Maintenance Training	None	None		
SEI 395	Base training	None	None		
SEI 396	Education Training	None	None		

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
SEI 402	Force Management	None	None	SEI is deleted from the airman classification system. AFSCs impacted by this change are 3E951/71/91.	
SEI 501	A-10	No Change	No Change	List of authorized AFSCs is revised to: Delete: AFSC 2A090. Add: 2A6X5.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.
None	None	SEI 502	CV-22	1. SEI 502 is established as an authorized identifier in the airman classification system. 2. AFSCs/CEMs authorized for use with this SEI and award criteria are as follows: For AFSCs 2A000, 2A190, 2A0X1B, 2A300, 2A390, 2A3X2, 2A590, 2A5X2, 2A600, 2A690, 2A691, 2A6X1B, 2A6X4, 2A6X5, 2A6X6, and 2A7XX, award requires completion of either (1) a formal CV-22 course and 6 months of experience or (2) 12 months of experience and supervisor's or commander's recommendation.	MPF: 2, 7. AFPC: 2, 9. Manpower: 2, 7, 10.
SEI 504	T/UH-1D/F/N	No Change	No Change	List of authorized AFSCs/CEMs is revised to delete 2A5X1.	MPF: 1, 4. AFPC: 1, 9. Manpower: 1, 10.
SEI 505	Any H-60	No Change	No Change	List of authorized AFSCs/CEMs is revised to: Delete: 1A1XX, 2A5X1. Add: 1A1X0/X1B, 2A6X5, and 2A7XX.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.
SEI 506	F-117	No Change	No Change	List of authorized AFSCs/CEMs is revised to delete AFSC 2A090.	MPF: 1, 4. AFPC: 1, 9. Manpower: 1, 10.
SEI 510	U-2	No Change	No Change	List of authorized AFSCs/CEMs is revised to add 2A3X3J.	MPF: 2, 7. AFPC: 2, 9. Manpower: 2, 7, 10.
SEI 512	Any H-53	No Change	No Change	List of authorized AFSCs/CEMs is revised to add 2A6X4, 2A6X5, 2A6X6, 2A600, 2A690, and 2A7XX.	

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
SEI 513	AC-130H/U, Spectre Gunship	No Change	No Change	List of authorized AFSCs/CEMs is revised to: Delete: 2A5X1. Add: 2A000, 2A300, 2A531B, 2A551J, 2A571, 2A600, 2A691, 2A6X1B, 2A6X4, 2A6X6, and 2A7XX.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.
SEI 514	HC-130P/MC-130P	No Change	No Change	1. Explanation/designation criteria is revised to add: For 2AXXX AFSCs, requires 12 months of experience and supervisor's recommendation. 2. List of authorized AFSCs/ CEMs is revised to add 2A000, 2A190, 2A1X1/2/3/7, 2A300, 2A4X1/2, 2A590, 2A531B, 2A551J, 2A571, 2A600, 2A6X1B, 2A690/1, 2A6X4 2A6X5 2A6X6, and 2A7XX.	MPF: 2, 7. AFPC: 2, 9. Manpower: 2, 7, 10.
SEI 515	MC-130E	No Change	No Change		
SEI 516	MC-130H	No Change	No Change		
SEI 522	F/RF-4	No Change	No Change	List of authorized AFSCs/CEMs is revised to add 2A590.	
None	None	SEI 525	Predator, Unmanned Aerial Vehicle (UAV)	1. SEI 525 is established as an authorized identifier in the airman classification system. 2. AFSCs/CEMs authorized for use with this SEI and award criteria are as follows: For AFSCs 2A1X1, 2A300, 2A390, 2A3X3J, 2A4X1, 2A4X3, and 2A590, award requires completion of the following courses: J4AMF/ASF/ AST2A4X0 000 (PDS code 0SI), J4AMF/ASF/ AST 2A4X0 001 (PDS code 148), J4AMF/ASF/ AST 2A4X0 002 (PDS code 41I), 12 months of experience; and commander's recommendation. For AFSCs 2E1X1 and 2E2X1, 12 months of experience and supervisor's recommendation.	MPF: 2, 7. AFPC: 2, 9. Manpower: 2, 7, 10.
SEI 526	EF-111A	No Change	No Change	List of authorized AFSCs/CEM is revised to: Delete: 2A090. Add: 2A190.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.
SEI 527	EF-111A/E	No Change	No Change		
SEI 528	F-111D	No Change	No Change		

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
SEI 533	F-15	No Change	No Change	List of authorized AFSCs is revised to: Delete: 2A090. Add: 2A0X1A, 2A190, 2A3X3A.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.
SEI 535	F-16	No Change	No Change	List of authorized AFSCs is revised to: Delete: 2A090. Add: 2A3X2.	
SEI 545	C-5	No Change	No Change	List of authorized AFSCs/CEMs is revised to delete 2A6X3.	MPF: 1, 4. AFPC: 1, 9. Manpower: 1, 10.
SEI 546	C-17	No Change	No Change	List of authorized AFSCs/CEMs is revised to add 2A0X1B.	MPF: 2, 7. AFPC: 2, 9. Manpower: 2, 7, 10.
SEI 547	C-12	No Change	No Change	List of authorized AFSCs/CEMs is revised to delete 2A6X3.	MPF: 1, 4. AFPC: 1, 9. Manpower: 1, 10.
SEI 550	C-141	No Change	No Change		
SEI 570	E-8, Joint Stars	No Change	No Change	List of authorized AFSCs/CEMs is revised to: Delete: 1A1XX. Add: 1A1X0, 1A1X1C, 2A000, 2A1XX, 2A300, 2A4XX, 2A590, 2A571, 2A5X1G, 2A551L, 2A600, 2A6X1A/C, 2A690, 2A691, 2A6X4/5/6, and 2A7XX.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.
SEI 573	Compass Call	No Change	No Change	List of authorized AFSCs/CEMs is revised to: Delete: 2A390. Add: 2A590, 2A531B, 2A551J, 2A571, 2A691, 2A6X1B, 2A6X4, 2A6X5, and 2A7XX.	
SEI 574	EC-135C/J (ABNCP)	No Change	No Change	List of authorized AFSCs/CEMs is revised to: Delete: 2A4X3. Add: 2A000, 2A1XX, 2A300, 2A4XX, 2A590, 2A571, 2A531G, 2A551L, 2A600, 2A690, 2A691, 2A6X1A/C, 2A6X4/5/6, and 2A7XX.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.
SEI 580	Any C-135/ Boeing 707 Modification	No Change	No Change	Explanation/designation criteria is revised to delete the short tour note.	All: 4.

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
SEI 581	RC-135	No Change	No Change	1. Explanation/designation criteria is revised to delete the short tour note. 2. List of authorized AFSCs/ CEMs is revised to add 2A6X4, 2A6X5 and 2A691.	MPF: 2, 7. AFPC: 2, 9. Manpower: 2, 7, 10.
SEI 583	KC-135	No Change	No Change	List of authorized AFSCs/CEMs is revised to add 2A000, 2A300, 2A590, 2A571, 2A531G, 2A551L, 2A6X4, and 2A7XX.	
SEI 584	E-4A/B (AABNCP)	No Change	No Change	1. Explanation/designation criteria is revised to delete the short tour note. 2. List of authorized AFSCs/ CEM is revised to add 2A6X2.	
SEI 586	B-52	No Change	No Change	Explanation/designation criteria is revised to delete the short tour note.	All: 4.
SEI 588	B-1	No Change	No Change	1. Explanation/designation criteria is revised to delete the short tour note. 2. List of authorized AFSCs/ CEM is revised to: Delete: 2A090. Add: 2A190, 2A6X6.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.
SEI 589	T-39	No Change	No Change	Explanation/designation criteria is revised to delete the short tour note.	All: 4.
SEI 590	Special Air Missions (SAM) (VC-25/VC-135/ VC-137/C-9/ C-20/C-21	No Change	No Change	1. Explanation/designation criteria is revised to add: For 2AXXX AFSCs, award requires 12 months of experience and supervisor's recommendation. 2. List of authorized AFSCs/ CEM is revised to: Delete 1A1XX. Add: 1A1X0/X1C, 2A000, 2A1XX, 2A300, 2A4XX, 2A590, 2A571, 2A5X1A/G, 2A551J/L, 2A600, 2A690/1, 2A6X1A/C, 2A6X4/5/6, and 2A7XX.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.
SEI 591	VC/C-9/T-43	No Change	No Change	Explanation/designation criteria is revised to delete the short tour note.	All: 4.

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
SEI 596	B-2	No Change	No Change	List of authorized AFSCs is revised to: Delete: 2A090. Add: 2W1XX.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.
SEI 601	F100	No Change	No Change	List of authorized AFSCs/CEMs is revised to add 2A6X1D.	MPF: 2, 7. AFPC: 2, 9. Manpower: 2, 7, 10.
SEI 602	F110	No Change	No Change	List of authorized AFSCs/CEMs is revised to add 2A6X1E.	
SEI 603	J57	No Change	No Change	List of authorized AFSCs/CEMs is revised to: Delete: 2A3X3A/B. Add: 2A590 and 2A5X1.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.
SEI 611	TF30	No Change	No Change	List of authorized AFSCs/CEMs is revised to: Delete: 2A6X1D. Add: 2A6X1C.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.
SEI 612	TF33	No Change	No Change	List of authorized AFSCs/CEMs is revised to add 2A6X1C.	MPF: 2, 7. AFPC: 2, 9. Manpower: 2, 7, 10.
SEI 614	F108	No Change	No Change	Explanation/designation criteria is expanded to add completion of course J4AMF/ ASF/AST 2A6X1A-035 (PDS Code 81Z) as an alternative formal training avenue.	All: 4.
None	None	SEI 615	TF39	1. SEI 615 is established as an authorized identifier in the airman classification system. 2. AFSCs/CEMs authorized for use with this SEI and award criteria are as follows: For AFSCs 2A600, 2A691, and 2A6X1A/C, award requires 6 months of experience and supervisor's or commander's recommendation.	MPF: 2, 7. AFPC: 2, 9. Manpower: 2, 7, 10.
SEI 620	F4E/G APQ, Fire Control Radar System	No Change	No Change	List of authorized AFSCs/CEMs is revised to: Delete: 2A490. Add: 2A590.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
SEI 625	Automated Engine Tracking	No Change	No Change	List of authorized AFSCs/CEMs is revised to: Delete: 2A551L and 2A571. Add: 2A5X1, 2A5X2, and 2A6X1B.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.
SEI 626	Radar Test Facility Technician	No Change	No Change	List of authorized AFSCs/CEMs is revised to: Delete: 2A090. Add: 2A190.	
SEI 629	Tactical Electronic Reconnaissance (TEREC)	No Change	No Change	1. Explanation/designation criteria is revised to read: Requires either (1) formal training plus 6 months of experience; or (2) 12 months of experience and supervisor's recommendation. 2. List of authorized AFSCs/ CEM is revised to add 2A190.	MPF: 2, 7. AFPC: 2, 9. Manpower: 2, 7, 10.
SEI 630	AN/ALQ-131	No Change	No Change	1. Explanation/designation criteria is revised to read: Requires either (1) formal training plus 6 months of experience; or (2) 12 months of experience and supervisor's recommendation. 2. List of authorized AFSCs/ CEM is revised to: Delete: 2A090. Add: 2A190.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.
SEI 633	Low Altitude Navigation Targeting Infrared for Night (LANTIRN)	No Change	No Change	1. Explanation/designation criteria is revised to read: Requires either (1) formal training plus 6 months of experience; or (2) 12 months of experience and supervisor's recommendation. 2. List of authorized AFSCs/ CEM is revised to add 2A300, 2A390, 2A3X1, and 2A3X2.	MPF: 2, 7. AFPC: 2, 9. Manpower: 2, 7, 10.
SEI 634	PAVE PENNY	No Change	No Change	Explanation/designation criteria is revised to read: Requires either (1) formal training plus 6 months of experience; or (2) 12 months of experience and supervisor's recommendation.	All: 4.

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
SEI 648	A-10 IATS	No Change	No Change	1. Explanation/designation criteria is revised to read: Requires either (1) formal training plus 6 months of experience; or (2) 12 months of experience and supervisor's recommendation. 2. List of authorized AFSCs/ CEM is revised to: Delete: 2A090. Add: 2A190.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.
SEI 651	Physical Measurement and Calibration	No Change	No Change	Explanation/designation criteria is revised to add courses E3AZR 2P051-008 (PDS Code XRL), or E3AZR 2P051-010 (PDS Code XRN) as alternative formal training courses for award of SEI. There are no other changes to award criteria.	All: 4.
SEI 652	Electrical-Electronic Measurement	No Change	No Change	Explanation/designation criteria is revised to add courses E3AZR 2P051-014 (PDS Code 588), E3AZR 2P051-051 (PDS Code 490), or E3AZR 2P051-047 (PDS Code 52K) as alternative formal training courses for award of SEI. There are no other changes to award criteria.	
SEI 653	Radiac Instruments	No Change	No Change	Explanation/designation criteria is revised to add course E3AZR 2P051-050 (PDS Code 1PI) as an alternative formal training course for award of SEI. There are no other changes to award criteria.	
SEI 656	ALQ-119	No Change	No Change	List of authorized AFSCs/CEMs is revised to: Delete: 2A090. Add: 2A190.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.
SEI 659	Adverse Weather Aerial Delivery Systems (AWADS)	No Change	No Change	1. Explanation/designation criteria is revised to add completion of course J4AMF/ ASF/AST 2A4X2-064 AN/APQ 175 (AWADS) radar Techn (O-Level) (PDS Code 3IR) as an alternative formal training course for award of SEI. 2. List of authorized AFSCs/ CEMs is revised to add 2A590.	MPF: 2, 7. AFPC: 2, 9. Manpower: 2, 7, 10.

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
SEI 661	Spectrometric Oil Analysis	No Change	No Change	1. Explanation/designation criteria is revised to: Require either (1) formal training plus 6 months of experience; or (2) 12 months of experience and supervisor's recommendation. 2. List of authorized AFSCs/ CEMs is revised to delete 2A300, 2A390, 2A3X3, 2A590, 2A5X1/2, 2A691, and 2A6X1A.	MPF: 1, 4. AFPC: 1, 9. Manpower: 1, 10.
SEI 662	PAVE SPIKE	No Change	No Change	Explanation/designation criteria is revised to read: Requires either (1) formal training plus 6 months of experience; or (2) 12 months of experience and supervisor's recommendation.	All: 4.
SEI 663	PAVE TACK	No Change	No Change		
SEI 664	AN/307 Operator	No Change	No Change		
SEI 665	Digital Scan Converter Group (DSCG)	No Change	No Change		
SEI 668	AN/APX 81	No Change	No Change	1. Explanation/designation criteria is revised to: Requires either (1) formal training plus 6 months of experience; or (2) 12 months of experience and supervisor's recommendation. 2. List of authorized AFSCs/ CEMs is revised to: Delete: 2A490. Add: 2A590.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.
SEI 669	AN/APQ 99/172	No Change	No Change	1. Explanation/designation criteria is revised to read: Requires either (1) formal training plus 6 months of experience; or (2) 12 months of experience and supervisor's recommendation. 2. List of authorized AFSCs/CEMs is revised to: Delete: 2A490. Add: 2A590.	

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
SEI 670	AN/ARN 101	No Change	No Change	1. Explanation/designation criteria is revised to read: Requires either (1) formal training plus 6 months of experience; or (2) 12 months of experience and supervisor's recommendation. 2. List of authorized AFSCs/ CEMs is revised to add 2A590.	MPF: 2, 7. AFPC: 2, 9. Manpower: 2, 7, 10.
SEI 672	Target Identification System Electro-Optical (TISEO)	No Change	No Change	Explanation/designation criteria is revised to read: Requires either (1) formal training plus 3 months of experience; or (2) 6 months of experience and supervisor's recommendation.	All: 4.
SEI 676	AN/ALQ-184	No Change	No Change	Explanation/designation criteria is revised to add completion of course J4AMF/ASF/ AST 2A1X7-040 (PDS Code 7NL) as an alternative formal training course for award of SEI.	
SEI 677	Air Force Satellite Communications Systems (AFSAT COM)/ Fleet Satellite Communications Systems (FLEET-SATCOM)	No Change	No Change	1. Explanation/designation criteria is revised to read: Requires either (1) completion of a formal AFSATCOM course plus 6 months of experience; or (2) 12 months of experience and supervisor's recommendation. 2. List of authorized AFSCs/ CEM is revised to delete: 2A090, 2A490.	MPF: 1, 4. AFPC: 1, 9. Manpower: 1, 10.
SEI 679	Rivet Eagle 66M Camera System	No Change	No Change	Explanation/designation criteria is revised to add a Lockheed course for award of this SEI.	All: 4.
SEI 680	ALM-204/ALQ-993, Tactical Jamming Subsystem	No Change	No Change	1. Explanation/designation criteria is revised to read: Requires completion of courses J4AMF/ASF/AST-451X6B-002 (PDS code MT1) and J4AMF/ ASF/AST 2A0X1A-002 (PDS Code MTB), 24 months of experience and supervisor's recommendation. 2. List of authorized AFSCs/ CEM is revised to: Delete: 2A090. Add: 2A190.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
SEI 684	AN/ALQ - 99E TJS	No Change	No Change	Explanation/designation criteria is revised to read: Requires either (1) formal training plus 8 months of experience; or (2) 12 months of experience and supervisor's recommendation. There are no other changes to award criteria.	All: 4.
SEI 690	Intermediate or Depot Level Maintenance	No Change	No Change	List of authorized AFSCs/CEMs is revised to: Delete: 2A090. Add: 2A6X3, 2A7X1, and 2A7X2.	MPF: 1, 2, 7. AFPC: 1, 2, 9. Manpower: 1, 2, 7, 10.
None	None	SEI 714	Specialized Aerial Spray Equipment	1. SEI 714 is established as an authorized identifier in the airman classification system. 2. AFSCs/CEMs authorized for use with this SEI and award criteria are as follows: For AFSCs 2A300, 2A590, 2A571, 2A5X1B/J, 2A690, 2A6X2, 2A6X4, 2A6X5, 2A6X6, 2A790, and 2A7X3, award requires completion of the following courses: AAP 001, Aerial Application of Pesticides, (PDS code 2EV), J4AZT2A753-000, Aircraft Corrosion Control, (PDS Code E9N), 12 months of experience; and commander's recommendation. For AFSCs 1A100, 1A1X1, and 1A2X1/00, award requires completion of the following course: AAP 001, Aerial Application of Pesticides, (PDS code 2EV), 12 months of experience; and commander's recommendation.	MPF: 2, 7. AFPC: 2, 9. Manpower: 2, 7, 10.
SEI 954	487 L Survivable Low Frequency Communications System	No Change	No Change	List of authorized AFSCs/CEMs is revised to delete 2A090 and 2A490.	MPF: 1, 4. AFPC: 1, 9. Manpower: 1, 10.
SEI 1ZK	Emergency Reaction Unit/ Direct Supporting Unit/Com-munications Security Technician	No Change	No Change	List of authorized AFSCs/CEMs is revised to delete: 2A190, 2A1X3, 2A490, and 2A4X2.	

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
Atch 42	Chief Enlisted Manager (CEM) Codes	No Change	No Change	Atch 42 is revised to: 1. Delete AFSC 2A090 as a 9-skill level feeder for CEM Code 2A000. 2. Delete AFSC 2A490 as a 9-skill level feeder for CEM Code 2A300. 3. Delete CEM code 3R000.	All: 4.

Attachment 2

AUTHORIZED PREFIXES

Prefix	Title	Explanation
A	Development Craftsman	Identifies positions on manpower documents and airmen serving in or qualified to serve in positions at the 5-skill level or higher (or 3-skill level if no 5-skill level exists) that directly support research and development activities or projects. Affix prefix A to duty and control AFSCs when airmen are assigned to authorized prefix A positions. Retain the prefix only so long as they are incumbents. Award and affix the prefix to the awarded AFSC (P/2/3/4AFSC) when airmen demonstrate development craftsman qualifications. Retain the prefix as long as airmen remain qualified. An airman must meet the following prerequisites for award of this prefix: 1. Possess an AFSC authorized for use with this prefix. 2. Demonstrate qualification in scientific or engineering design, development, testing, or research functions for 6 months. Use prefix A with only the following AFSCs: **Career Field AFSC** 1A 1A351/71/91/00 1C 1C551/71/91/00 and 1C551D/71D 1T 1T151/71/91/00 1W All 2A All 2E All except 2E651/71 2P All 2M All 2W All 3C 3C000, 3C151/71/91, 3C132/72/92, and 3C251/71/91 3E All 3V All 4A 4A251/71/91/00 4B 4B051/71/91/00 4C 4C051/71/91/00 4E 4E051/71/91/00 4F 4F051/71/91/00 4H 4H051/71/91/00 4J All 4M 4M051/71/91/00 4N All 4P 4P051/71/91/00 4R All 4T All except 4T0X3 4U 4U051/71/91/00 4V All 4Y All

Prefix	Title	Explanation
B	B-2 Personnel	Identifies positions on manpower documents and airmen serving in, qualified to serve in, or receiving formal training to qualify to serve in B-2 positions. Affix prefix B to the duty AFSC when airmen are assigned to authorized prefix B positions and retained only so long as they are incumbents. Affix prefix B to the control AFSC when airmen are assigned to prefix B positions or entry into a formal training course leading to a B-2 assignment. If an airman fails to complete training, then withdraw the prefix from the control AFSC. Retain the prefix only so long as they are incumbents of prefix B positions. Award and affix the prefix to the awarded AFSC (P/2/3/4AFSC) when airmen demonstrate B-2 qualification. Retain the prefix as long as airmen remain qualified. An airman must meet the following prerequisites for award of this prefix: 1. Possess an AFSC authorized for use with this prefix. 2. Successfully complete B-2 training or have 6 months of experience in B-2 unit. ★Use prefix B with only the following AFSCs: 2A0X1B 2A190 2A1X2 2A1X3 2A390 2A4X1 2A4X2 2A590 2A5X1E/K 2A571 2A5X3 2A690 2A691 2A6X1A/E 2A6X3 2A6X4 2A6X5 2A6X6 2A790 2A7X1 2A7X2 2A7X3 2A7X4
C	Flying Crew Chief	Identifies positions on manpower documents and airmen serving in or qualified to serve in flying crew chief (FCC) positions. FCCs have first level supervisory responsibility for maintenance of the aircraft to which assigned, and ensure all maintenance actions are performed off-station. Affix prefix C to the duty and control AFSCs when airmen are assigned to authorized prefix C positions. Retain the prefix only so long as they are incumbents. Award and affix the prefix to the awarded AFSC (P/2/3/4AFSC) when airmen demonstrate FCC qualification. Retain the prefix as long as airmen remain qualified. An airman must meet the following prerequisites for award of this prefix: 1. Possess an AFSC authorized for use with this prefix. 2. Have a minimum of 18 months of experience on the weapon system to which assigned prefix C duty. 3. Qualify for FCC duty according to AFI 21-101, *Maintenance Management of Aircraft.* Use prefix C with only the following AFSCs: 2A352A/B/C 2A372 2A353B/73B 2A451/71 2A452/72 2A551/71 2A552/72 2A651/71 2A655/75 2A656/76

Prefix	Title	Explanation
G	Automated Systems Programming Craftsman	Identifies positions on manpower documents and airmen serving in, qualified to serve in, or receiving formal training to qualify to serve in positions requiring functional area expertise with the ability to program computers associated with automated Air Force functions. Automated systems programming craftsmen interpret and refine plans and specifications prepared by systems analysts and prepare system logic flow charts depicting automated problem solutions for which detailed functional area knowledge is essential. Automated systems programming craftsmen use functional area knowledge to expedite converting plans, flow charts, and operational sequence specifications into machine instructions. Automated systems programming craftsmen prepare system charts, administrative processing charts, and data layouts showing information to be processed. In addition, automated systems programming craftsmen use functional area knowledge to develop, maintain, and modify programs. Affix prefix G to duty and control AFSCs when airmen are assigned to authorized prefix G positions and retained only so long as they are incumbents. Award and affix the prefix to the awarded AFSC (P/2/3/4AFSC) when airmen demonstrate automated systems programming qualification. Retain the prefix as long as airmen remain qualified. This prefix is awarded and deleted by headquarters no lower than major command level. An airman must meet the following prerequisites for award of this prefix: 1. Possess an AFSC authorized for use with this prefix. 2. Have at least 12 months of experience in the operational aspects of an Air Force functional area while serving in an authorized AFSC applicable to the area. 3. Have completed a formal training course in computer programming and possess a minimum of 12 months of experience performing the duties described above (6 months of additional experience may be substituted for the 9 weeks' formal training). The unit commander or supervisor of the automated system certifies the proficiency in programming the functional area automated system. Use prefix G with only the following AFSCs: 1C052/72/92/00 1C151/71/91 1W051/91/00 1W051A/71A 2E051/71/90 2E251/71/91 2F051/71/91/00 3C000 3C251/71/91 3S051/71/90/00
J	Parachutist	Identifies positions on manpower documents and airmen serving in or qualified to serve in parachutist positions. (See AFI 11-402, *Aviation and Parachutist Service, Aeronautical Ratings and Badges*, for further explanation of this prefix.) Affix prefix J to duty and control AFSCs when airmen are assigned to authorized prefix J positions and retained only so long as they are incumbents.

Prefix	Title	Explanation
J	Continued	Award and affix the prefix to the awarded AFSC (P/2/3/4AFSC) when airmen demonstrate parachutist qualification. Retain the prefix as long as airmen remain qualified, notwithstanding orders terminating parachutist duties. An airman must meet the following prerequisites for award of this prefix: 1. Successfully complete parachute training. 2. Meet physical standards to perform parachute duty. 3. Hold a parachutist rating.
K	Aircrew Instructor	Identifies positions on manpower documents and airmen serving in or qualified to serve in aircrew instructor positions. Affix prefix K to the duty AFSC when airmen are assigned to authorized prefix K positions and retain only so long as they are incumbents. Affix prefix K to the control AFSC when airmen are assigned to aircrew positions on flying status and retain only so long as they are incumbents. Award and affix the prefix to the awarded AFSC (P/2/3/4AFSC) when airmen demonstrate aircrew instructor qualification. Retain the prefix as long as airmen remain qualified whether or not they are on flying status. An airman must meet the following prerequisites for award of this prefix: 1. Possess an AFSC authorized for use with this prefix. 2. Perform satisfactorily in an authorized position requiring performance as an aircrew instructor. 3. Meet physical standards for aircrew duty according to AFI 48-123, *Medical Examination and Standards*, Class III medical standards. 4. Qualify for aviation service according to AFI 11-402, *Aviation and Parachutist Service, Aeronautical Ratings and Badges*. ★Use prefix K with only the following AFSCs: 1A051/71/91/00 1A190/00 1A151B/71B 1A151C/71C 1A251/71/91/00 1A351/71/91/00 1A451/71/91/00 1A591/00 1A551/71 1C451/71 1N051/71/91 1N551/71/91 1N37XX 1T251/71/91/00 1W051/91/00 1W051A/71A 2A000 2A190 2A153/73 2A452/72 2A590 2A157/77 2W151/71/91/00 3V090 3V052/72 3V053/73 8S100 9S100

Prefix	Title	Explanation
N	Network Systems Administration	Identifies positions on manpower documents and airmen serving in or qualified to serve in network systems administration positions. Affix prefix N to duty and control AFSCs when airmen are assigned to authorized prefix N positions and retained only so long as they are incumbents. Award and affix the prefix to the awarded AFSC (P/2/3/4AFSC) when airmen demonstrate qualification. Identifies positions on manpower documents and airmen serving in or qualified to serve in network systems administration positions. An airman must meet the following prerequisites for award of this prefix: 1. 7-skill level and below. 2. Currently serving as system administrator for a client-server networked system. 3. Six months systems administration experience and completion of technical training in systems administration; or, eighteen consecutive months of experience performing primarily as systems administrator. (***NOTE***: Systems administration technical training can be through AFSC-specific technical school, supplemental course, or through contract provided training.) 4. Supervisor's recommendation and commander's certification. ***NOTE*:** This prefix is authorized for use on manpower documents with any RI, SDI, or AFSC (5- and 7-skill levels only).
Q	Aircrew Standardization/ Flight Examiner	Identifies positions on manpower documents and airmen serving in or qualified to serve in aircrew standardization/flight examiner position. Affix prefix Q to the duty AFSC when airmen are assigned to authorized prefix Q positions and retain only so long as they are incumbents. Affix prefix Q to the control AFSC when airmen are assigned to aircrew positions on flying status and retain only so long as they are incumbents. Award and affix the prefix to awarded AFSC (P/2/3/4AFSC) when airmen demonstrate aircrew standardization/flight examiner qualification. Retain the prefix as long as airmen remain qualified whether or not they are on flying status. An airman must meet the following prerequisites for award of this prefix: 1. Possess an AFSC authorized for use with the prefix. 2. Perform satisfactorily in an authorized position requiring performance as an aircrew standardization/ flight examiner. 3. Meet physical standards for aircrew duty according to AFI 48-123 Class III medical standards. 4. Qualify for aviation service according to AFI 11-402, *Aviation and Parachutist Service, Aeronautical Ratings and Badges*.

Prefix	Title	Explanation
Q	Continued	★Use prefix Q with only the following AFSCs: 1A051/71/91/00 1A190/00 1A151B/71B 1A151C/71C 1A251/71/91/00 1A351/71/91/00 1A451/71/91/00 1A591/00 1A551/71 1C451/71 1N051/71/91 1N551/71/91 1N37XX 1T251/71/91/00 1W051/91/00 1W051A/71A 2A000 2A190 2A153/73 2A157/77 2A452/72 2A590 2W151/71/91/00 8S100 9S100
R	Contingency /War Planner	Identifies positions on manpower documents and airmen serving in or qualified to serve in positions requiring functional area expertise, and experience and training in contingency or war planning functions. Prefix R is affixed to duty and control AFSCs when airmen are assigned to authorized prefix R positions, and retained only so long as they are incumbents. It is awarded and affixed to the awarded AFSC (P/2/3/4 AFSC) when airmen demonstrate contingency or warplanner qualifications. It is retained until changed or revoked by the AFSC career field manager with the concurrence of HQ USAF/XOXW. An airman must satisfy one of the following sets of criteria for award of this prefix: Successful completion of one or more of the following courses and have 6 months of experience in a prefix R position: 1. MCADRE002 - Contingency/Wartime Planning Course, PDS Code 82U; 2. MCADRE003 - Joint Doctrine Air Campaign Course, PDS Code W1B; 3. E6AZU49131 009 - Worldwide Military Command and Control System Intercomputer Network (H6000-CDT), PDS Code 11J; 4. 4925 - Joint Operation Planning and Execution System User Course (Basic), PDS Code W5J; 5. J5OZO9000 003 - Joint Medical Planners Course (JMPC) - PDS Code XH6; or 12 months of experience in a prefix R position. ***NOTE***: Changes to this prefix must be approved by HQ USAF/XOXW.

Prefix	Title	Explanation
T	Formal Training Instructor	Identifies positions on manpower documents and airmen serving in, qualified to serve in, or receiving formal Instructor training to qualify to serve in formal training instructor positions. Affix prefix T to the duty AFSC when airmen are assigned to authorized prefix T positions and retained only so long as they are incumbents. Affix prefix T to the control AFSC when airmen are assigned to these positions, selected for entry into a formal training instructor course leading to such assignment, or selected for instructor duty according to AFI 36-2110, *Assignments* and AFCAT 36-2223, *USAF Formal Schools*. Withdraw the prefix from the control AFSC of airmen who fail to complete training. Retain the prefix only so long as airmen are incumbents of prefix T positions. Award and affix the prefix to awarded AFSC (P/2/3/4AFSC) in which duty is being performed when airmen demonstrate formal training instructor qualifications. Retain the prefix as long as airmen remain qualified. Withdrawal authority for this prefix is major command or higher. An airman must meet the following prerequisite for award of this prefix: Possess at least the skill level of the specialty in which the airman will instruct, and complete training determined necessary by the supervisor for the position to which the airman is assigned.
V	Automated Functional Applications Analyst/Monitor	Identifies positions on manpower documents and airmen serving in, qualified to serve in, or receiving formal training to qualify to serve in positions requiring functional area expertise with the ability to design, analyze, supervise, or monitor the computer applications of automated Air Force functions. Do not use this prefix to identify positions or personnel requiring full qualification in the Communications-Computer Systems Career Field, and using AFSCs 3CXXX is more appropriate. Automated functional applications analysts functionally analyze requirements, define objectives, and determine how they can be met more effectively by automated methods; assist in developing complete plans; and conduct general and detailed flow charts and block diagrams to graphically show systems logic and processing flow from initial input to final output. Affix prefix V to duty and control AFSCs when airmen are assigned to authorized prefix V positions. Retain the prefix only so long as they are incumbents. Award and affix the prefix to awarded AFSC (P/2/3/4AFSC) when airmen demonstrate automated systems analyst/monitor qualification. Retain the prefix as long as airmen remain qualified. Withdrawal authority for this prefix is major command or higher.

Prefix	Title	Explanation
V	Continued	An airman must meet the following prerequisites for the award of this prefix: 1. Possess an AFSC authorized for use with this prefix. 2. Have a minimum of 24 months of experience in an authorized prefix V position. 3. Have a minimum of 24 months of experience in designing, analyzing, supervising, or monitoring functional area automated systems while serving in an AFSC authorized in the particular function. Experience must include performing system feasibility or application studies for that automated system. Full qualification in Prefix G, Automated Systems Programming Craftsman, may satisfy 12 months of experience necessary for award of prefix V. Capability to perform as a system analyst associated with the automated function is certified by the unit commander or supervisor of the automated system. 4. Completion of a formal systems analyst course is desirable. ★Use Prefix V with only the following AFSCs: 1C052/72/92/00 1C3X1/00 1C551/71/91/00 1C651/71/91/00 1N051/71/91/00 1N151/71/91 1W051/91/00 1W051A/71A 2A000 2A151/71/90 2A390/00 2A353A/B/J 2A373A/B/J 2A590 2A551J/K/L 2A571 2E000 2E051/71/91 2E052/72 2E053/73 2E151/71/90 2E152/72 2E153/73 2E154/74 2E251/71/91 2E351/71/91 2E451/71/91 2E651/71/90 2E652/72 2E653/73 2E790/00 2E751/71 2E753/73 3E000 3E631/71/91 3M051/71/91/00 3N090/00 3N051/71 3N052/72 3U0X1/00 3S090/00 4A071/91/00 4A171/91/00 4B071/91/00 4P071/91/00 4T090/00 4T071 4Y071/90/00 6F051/71/91/00 7S000 7S0X1
X	Aircrew	Identifies positions on manpower documents and airmen serving in or qualified to serve in aircraft crew positions. Affix prefix X to the duty AFSC when airmen are assigned to aircrew positions on flying status and retained only so long as they are incumbents. Affix prefix X to the control AFSC when airmen are assigned to aircrew positions on flying status and retained only so long as they are incumbents. Award and affix the prefix to the awarded AFSC (P/2/3/4AFSC) when airmen demonstrate aircrew qualification. Retain the prefix as long as airmen remain qualified, whether or not they are on flying status. An airman must meet the following prerequisites for award of this prefix: 1. Possess an AFSC authorized for use with this prefix. 2. Perform satisfactorily in an authorized aircrew position requiring participation in frequent and regular aerial flights, or be a graduate of a formal training course leading to qualification in aircrew duties. 3. Meet physical standards for aircrew duty according to AFI 48-123, *Medical Examination and Standards,* Class III medical standards. 4. Qualify for aviation service according to AFI 11-402, *Aviation and Parachutist Service, Aeronautical Ratings and Badges*.

Prefix	Title	Explanation
X	Continued	★Use prefix X with only the following AFSCs: 1A0X1/00 1A190/00 1A1X1B/C 1A2X1/00 1A3X1/00 1A4X1/00 1A451D/71D 1A500 1A5X1 1C351/71/91/00 1C451/71 1N051/71/91/00 1N151/71/91 1N2X1/00 1N390 1N3XXX 1N4X1 1N551/71/91/00 1N6X1/00 1T2X1/00 1W0X1/00 1W031A/51A/71A 2A071/00 2A190 2A1X1/X2/X3 2A1X7 2A371 2A4X1/X2 2A590 2A551J/K/L 2A571 2A600 2A690/92 2A6X6 2E1X1/X2 2E231B/51B 2E3X1 2E8X1/00 2M0X1 2M032/52/72 2W131X 2W151/71/91 3A000 3A051/71/91 3C052/72 3V090 3V052/72 3V053/73 4N091/00 4N031/51/71 8A000 8E000 8S100 9L000 9S100

Attachment 3

REPORTING IDENTIFIERS

Reporting identifiers (RI) identify authorizations and individual airmen who, for any reason, are not identifiable in the classification structure and for whom specialty descriptions are not written. The following is a complete listing of all Reporting Identifiers.

REPORTING IDENTIFIERS

Identifier	Title
9A000	Airman Awaiting Retraining - Disqualified for Reasons Beyond Control
9A100	Airman Awaiting Retraining - Disqualification for Reasons Within Control
9A200	Airman Awaiting Discharge, Sep, Retire for Reasons Within Their Control
9A300	Airman Awaiting Discharge, Sep, Retire for Reasons Beyond Their Control
9C000	Chief Master Sergeant of the Air Force
9D000	Dormitory Manager
9E000	Senior Enlisted Advisor
9G000	Airman Aide
9J000	Prisoner
9L000	Interpreter/Translator
9P000	Patient
9R000	Civil Air Patrol (CAP)-USAF Reserve Assistant NCOs
9S100	★Technical Applications Specialist
9T000	Basic Airman
9T100	Officer Trainee
9T200	Precadet Assignee
9U000	Airman Ineligible for Local Utilization
9U100	Unallotted Airman Authorization

1. 9A000, Airman Awaiting Retraining -- Disqualified for Reasons Beyond Control. Use this identifier to report the control and primary AFSCs of an airman who loses qualification in a former specialty for reasons over which the airman had no control, who possesses no other awarded AFSC, and who is awaiting retraining action. Related DoD Occupational Subgroup: 920.

2. 9A100, Airman Awaiting Retraining -- Disqualified for Reasons Within Control. Use this identifier to report the control and primary AFSCs of an airman who loses qualification in a former specialty for reasons over which the airman had control, who possesses no other awarded AFSC, and who is awaiting retraining action. Related DoD Occupational Subgroup: 920.

3. 9A200, Airman Awaiting Discharge, Separation, or Retirement. Use this identifier to report control and primary AFSCs when an individual has lost qualification in a specialty, possesses no other awarded AFSC, and:

3.1. Is being medically evaluated for retention;

3.2. Is being processed for involuntary discharge; or

3.3. Has an approved date of discharge, separation, or retirement within 6 months and has declined to obtain required retainability for retraining. Also, use this identifier to report the control and duty AFSCs of an individual who is on leave awaiting appellate review of a court-martial conviction which includes unsuspended dismissal, dishonorable discharge, or bad conduct discharge (duty status code 52). Related DoD Occupational Subgroup: 920.

4. 9A300, Airman Awaiting Discharge, Separation, or Retirement for Reasons Beyond Their Control. Use this identifier to report control and primary AFSCs when an individual lost qualification in a specialty, possesses no other awarded AFSC, and:

4.1. Is disqualified for reasons beyond their control, and is being medically evaluated for retention; or

4.2. Is a second term or career airman who has an approved date of discharge, separation, or retirement (due to high year or tenure) within 18 months. Related DoD Occupational Subgroup: 920

5. 9C000, Chief Master Sergeant of the Air Force. Use this identifier to report the awarded (primary/2/3/4), control, and duty AFSCs of the individual performing as Chief Master Sergeant of the Air Force. The Chief Master Sergeant of the Air Force serves as a member of the Commander in Chief's staff to advise and assist in matters concerning Air Force enlisted members. Related DoD Occupational Subgroup: 521.

6. 9D000, Dormitory Manager. Use this identifier to report the control and duty AFSCs of individuals performing full time as a manager of an enlisted dormitory. The Dormitory Manager is responsible for dormitory waiting list, detail personnel, post-cleanup inspection of common-use areas, keys, supplies, furniture, equipment, annual budget estimates, and building management. Only change an individual's duty AFSC when actually assigned to a 9D000 position. (Related DOD Occupational Subgroup: 850.)

7. 9E000, Senior Enlisted Adviser. Use this identifier to report the awarded (primary/2/3/4) control, and duty AFSCs of an individual performing full time as a senior enlisted adviser. The senior enlisted adviser serves as a member of the commander's staff to advise and assist in matters concerning enlisted members of the command or organization. Related DoD Occupational Subgroup: 521.

8. 9G000, Airman Aide. Use this identifier to report the awarded (primary/2/3/4), control, and duty AFSCs of an airman performing principal duty as an airman aide when authorized according to AFI 36-2123, *Management of Enlisted Aides*. Related DoD Occupational Subgroup: 801.

9. 9J000, Prisoner. Use this identifier to report the duty AFSC of a prisoner in confinement who has not been dropped from roll. Related DoD Occupational Subgroup: 902.

10. 9L000, Interpreter/Translator. Use this identifier to report the awarded (primary/2/3/4), control and duty AFSCs of an airman performing duty as a foreign language interpreter or translator. Related DoD Occupational Subgroup: 241.

11. 9P000, Patient. Use this identifier to report the duty AFSC of an airman assigned to a hospital in patient pipeline status. Do not change the control or awarded AFSCs. Related DoD Occupational Subgroup: 901.

12. 9R000, Civil Air Patrol (CAP)-USAF Reserve Assistance NCO. Use this identifier to report the awarded (primary/2/3/4), control, and duty AFSCs of Individual Ready Reserve enlisted members assigned duty to assist in mission accomplishment of military oversight and guidance to the Civil Air Patrol. Related DoD Occupation Sub group: 520, 556.

13. 9S100, Technical Applications Specialist. (Changed 31 Oct 98) Use this identifier to report the awarded (primary/2/3/4), control, and duty AFSCs of airmen that apply leading edge physical sciences to perform data collection, analysis, observation, study, experimentation , acquisition, maintenance, research and development, fielding of prototype and operational electronic sensors and systems on specialized geophysical, nuclear radiation, chemical, biological, electro-optic, radio-frequency, infrared discrimination, radar, and rapidly deployable and fixed airborne materials sampling platforms; and process and analyze scientific data; derive, develop, and report first-hand signature information to national command authorities and warfighters. Related DoD Occupational Subgroup: 491 and 531.

14. 9S200, Deleted 31 Oct 98.

15. 9T000, Basic Airman. Use this identifier to report the primary, control, and duty AFSCs of an airman who has not been awarded an AFS and to report the duty of an airman attending basic training. Related DoD Occupational Subgroup: 950.

16. 9T100, Officer Trainee. Use this identifier to report the control and duty AFSCs of an airman attending Officer Training School, the Airman Education and Commissioning Program, or Phases I and II of the Physician Assistant Training Program. Related DoD Occupational Subgroup: 911.

17. 9T200, Precadet Assignee. Use this identifier to report the duty AFSC of an airman who is assigned duty as a precadet assignee. Related DoD Occupational Subgroup: 911.

18. 9U000, Airman Ineligible for Local Utilization. Use this identifier to report the control AFSC of an individual who has been determined ineligible to perform duty in an awarded AFSC at the current duty location and has been approved by HQ AFPC, Airman Assignments (DPAA), for retraining as a surplus airman. Only HQ AFPC/DPAA will update RI 9U000 in the personnel data system. Related DoD Occupational Subgroup: 920.

19. 9U100, Unallotted Airman Authorization. Use this identifier to report those authorizations within bulk allotments of airman personnel that are not specifically allocated by AFS. Related DoD Occupational Subgroup: 950.

Attachment 4

SPECIAL DUTY IDENTIFIERS

Introduction

Special Duty Identifiers (SDI) identify authorizations for airmen assigned to and performing an actual group of tasks on a semi-permanent or permanent duty basis. These duties are unrelated to any specific career field at this time and do not provide a normal career progression pattern. No significance as to the interrelationship of these SDIs is implied from their grouping within this section. The following is a complete listing of Special Duty Identifiers:

SPECIAL DUTY IDENTIFIERS	
Identifier	**Title**
8A000	In-Flight Passenger Service Specialist
8B000	Military Training Instructor
8B100	★Military Training Leader
8C000	Family Support Center
8D000	Linguist Debriefer/Interrogator
8E000	Research & Development Technician
8F000	First Sergeant
8G000	USAF Honor Guard
8J000	Correctional Custody Supervisor
8M000	Postal
8P000	Courier
8P100	Defense Attaché
8R000	Recruiter
8S000	Missile Facility Manager
8S100	Sensor Operator
8T000	PME Instructor

SDI 8A000

IN-FLIGHT PASSENGER SERVICE SPECIALIST

1. Special Duty Summary. Provides for safety and comfort of passengers in flight. Related DoD Occupational Subgroup: 553.

2. Duties and Responsibilities:

2.1. Performs in-flight service and support functions. Checks passengers against manifest and performs final passenger count. Ensures all border clearance requirements are met. Relays information to ground concerning billeting, transportation, and special handling of distinguished visitors, Blue Barks, and dependents. Provides passengers information on such items as schedules, routes, travel requirements, and baggage limitations. Ensures availability of cabin service equipment. Conducts drills in emergency equipment and procedures and exit releases. Adjusts and fits passenger safety or survival equipment. Prepares and serves in-flight meals, collects monies, and accounts for consumption of food and beverages. Provides passengers with recreational and reading materials. Inspects passengers and baggage for compliance with procedures for in-flight security. Maintains passenger in-flight discipline on items such as seating arrangements, safety requirements, and use of facilities. Operates electrical systems such as galley equipment and air conditioners.

2.2. Loads and unloads passenger-carrying aircraft. Ensures aircraft is prepared for passenger loading. Follows prescribed procedures and safety precautions. Operates passenger-loading equipment.

2.3. Prepares and checks records and documents. Prepares records and documents including cash collection forms. Confirms necessary forms for clearance through international border clearance agencies. Accounts for documents and monies, and maintains aircraft documents and records to satisfy Air Force, United States civil, and international requirements.

3. Special Duty Qualifications:

3.1. Knowledge. Knowledge is mandatory of: airlift and transportation directives; types, capacities, and configuration of transport aircraft.

3.2. Education. Not used.

3.3. Training. Not used.

3.4. Experience. Not used.

3.5. Other. The following are mandatory for entry into this SDI:

3.5.1. Physical qualification for aircrew duty according to AFI 48-123, *Medical Examination and Standards,* Class III medical standards.

3.5.2. Ability to speak distinctly.

3.5.3. Prior qualification in any AFSC at the 3-skill level or higher.

SDI 8B000

MILITARY TRAINING INSTRUCTOR

1. Special Duty Summary. Conducts basic military training for nonprior service airmen, including those of the Air Reserve Forces, and initial military training for cadets of the United States Air Force Academy. Related DoD Occupational Subgroup: 012.

2. Duties and Responsibilities:

2.1. Plans, organizes, and directs basic and initial military training. Plans and organizes military training requirements. Determines requirements for training, facilities, space, equipment, visual aids, and supplies to support military training requirements, and monitors the training program to ensure effective use of support items. Plans and organizes phases of training, student flow, and flight assignments, consistent with available facilities. Plans the use of nonappropriated funds for training activities or equipment.

2.2. Inspects and evaluates military training activities, personnel, and facilities. Conducts periodic inspections of training activities and assists training units in correcting training deficiencies. Evaluates personnel undergoing military training, to include performance and adaptability. Counsels and advises individuals on training problems. Identifies nonprior service personnel unfit or unsuitable for retention in the Air Force.

2.3. Prepares and maintains files and records pertinent to basic and initial military training. Prepares and maintains a training record on each individual undergoing training. Prepares reports and records about student accountability. Maintains completed training record files for historical review.

2.4. Instructs on basic and initial military training. Instructs indoor and outdoor military training subjects using demonstration-performance and lecture methods. Uses film projection equipment in support of training objectives. Provides remedial training for nonprior service personnel undergoing this military training.

3. Special Duty Qualification:

3.1. Knowledge. Knowledge is mandatory of: principles, techniques, and methods of instruction; use of visual aids; learning processes; curriculum development; training evaluation; and counseling methods and techniques.

3.2. Education. Not used.

3.3. Training. For retention of this SDI, completion of the Military Training Instructor course is mandatory.

3.4. Experience. For entry into this SDI, qualification in any AFSC at the 5-skill level or higher (3-skill level if no 5-skill level exists) is mandatory.

3.5. Other. The following are mandatory as indicated:

3.5.1. For entry into this SDI:

3.5.1.1. Recommendation by unit commander for military training instructor duty.

3.5.1.2. Interview and favorable recommendation by a psychologist or psychiatrist (if none assigned, a physician conducts an interview and provides a recommendation).

3.5.2. For entry, award, and retention of this SDI:

3.5.2.1. Ability to speak distinctly.

3.5.2.2. Possession of high standards of military appearance and conduct.

SDI 8B100

★MILITARY TRAINING LEADER
(Changed 31 Oct 98)

1. Special Duty Summary. Counsels all airmen attending technical school on training or personal problems, military bearing, standards, and behavior; and schedules and conducts military training functions for students. Related DoD Occupational Subgroup: 012.

2. Duties and Responsibilities:
2.1. Advises and counsels students. Establishes and conducts incoming, outgoing, and student entry briefings. Conducts individual and group interviews. Motivates personnel to develop military attitudes, effective human relations, and social skills for improving interpersonal and military relations. Assists students in their personal adjustment to military life. Establishes and maintains liaison with the School of Applied Aerospace Sciences in order to keep up to date on student activities and identify student status such as problem or exceptional (honor) students. Applies counseling techniques and military experience to counsel airmen with training, military bearing, and behavior problems. Refers students to the appropriate staff agency. Identifies airmen unfit or unsuitable for retention in the Air Force.
2.2. Plans, organizes, and directs military education instruction. Monitors and conducts military training within the unit. Determines appropriate instruction methods considering the group size and subject matter. Conducts instruction using demonstration-performance and lecture methods. Maintains thorough knowledge of and instructs personnel in drill, parades, retreats, and reviews. Provides supplemental military training.
2.3. Ensures students maintain military standards. Guides and assists in selecting, training, and evaluating student leaders. Monitors safety in formations, dormitories, and sports. Ensures students maintain personal appearance and order in military formations. Monitors and controls grounds maintenance assigned to unit. Maintains duty rosters and forms, and assures fatigue and squadron details are distributed fairly. Ensures students maintain discipline and Air Force standards in dormitories. Ensures students comply with directives.
2.4. Prepares and maintains files and records on military education and counseling matters. Prepares statistical reports and records about student accountability. Accounts for assigned students and maintains general military training forms.

3. Special Duty Qualifications:
3.1. Knowledge. Knowledge of military training learning processes, counseling methods, and techniques is mandatory.
3.2. Education. Not used.
3.3. Training.
★3.3.1. Completion of the Military Training Leader course is mandatory.
3.3.2. Completion of a basic Counseling Course is mandatory.
3.4. Experience. Not used.
3.5. Other:
3.5.1. Ability to speak clearly is mandatory.
3.5.2. Possession of high standards of military appearance and conduct.
3.5.3. Recommendation by unit commander or supervisor for student training advisor duty is mandatory.

SDI 8C000

FAMILY SUPPORT CENTER
(Changed 31 Oct 97)

1. Special Duty Summary. Administers activities of a base family support center (FSC), including family readiness functions, and acts as liaison between the FSC and supporting military and civilian agencies. Related DoD Occupational Subgroup: 500.

2. Duties and Responsibilities:
2.1. Provides leadership and management support for FSC operations. Serves as the principal military advisor to the FSC staff and as the liaison to the military community. Instructs staff on base mission, protocol, and other military issues. Provides both military and civilian families assistance and support before, during, and after times of local or national emergency or disasters, mobilization, deployment, separation, or evacuation (to include Safe Haven staging operations). Develops, implements and evaluates goals and objectives to effectively manage day-to-day operations of the FSC. Interprets and implements policies for effective operation. Assists FSC staff to develop readiness publications, plans, marketing, education, and training. Designs and conducts evaluation systems used to measure the FSC's effectiveness.
2.2. Supports FSC functional mission. Consults with on- and off-base supporting agencies and base senior NCO leadership to determine what services are available and to ensure family programs and services are responsive to the needs of service members and their families. Represents the FSC's involvement in base contingency and disaster preparedness planning and family readiness educational initiatives directed toward service members and their families. Provides information to base leadership on issues and trends affecting base personnel and their families. Promotes family preparedness through education, marketing , and member and family participation in family readiness support activities. Promotes the FSC programs at Chief's Groups, First Sergeant Groups, Commander's Calls, Base INTRO, and in other forms. Assists in planning and coordinating family policy and programs. Researches base family demographics as they relate to family issues and concerns. Coordinates and assists with the base Community Action and Information Board or similar groups. Plans and coordinates operational support for the FSC programs. Responsible for FSC pre-deployment, deployment, and reunion issues as they relate to families.
2.3. Directs FSC logistics management. Develops and executes FSC budget, including appropriated and nonappropriated funds. Expends funds to obtain supplies and equipment necessary to fulfill FSC mission. Safeguards equipment against loss, misuse, or theft. Coordinates with base contracting on local purchase items and nonpersonal service contracts. Inspects FSC facility for safety hazards, fire hazards, maintenance requirements, and housekeeping activities.
2.4. Manages FSC information management operations. Directs activities of the FSC information management staff. Establishes suspense files or systems. Edits and reviews all outgoing correspondence. Ensures required statistical data is compiled and reported. Manages the FSC records management, publications, and forms requirements. Ensures FSC complies with Freedom of Information Act, Privacy Act, and For Official Use Only requirements.
2.5. Provides assistance to service members and families. Assists service members and families with advance planning and preparations for deployments and extended separations. Develops and makes available educational material and information relating to extended family separations. Briefs and assists families during absence of military member, emergencies, and natural disasters. Responsible for FSC family support groups and other organized activities (external to the FSC) providing family assistance during emergency and contingency operations.

3. Special Duty Qualifications:
3.1. Knowledge. Knowledge is mandatory of personnel management, financial and resource management, professional support functions, base deployment mission and issues, Air Force organization, and administration.
3.2. Education. For entry into this SDI, completion of high school or general educational equivalency is mandatory.
3.3. Training. For retention of this SDI, one of the following training requirements is mandatory:
3.3.1. Completion of the Family Support Center training course.
3.3.2. Completion of prescribed training directed by the Air Force Office of Family Matters.
3.4. Experience. Not Used.
3.5. Other. The following are mandatory for entry into this SDI:
3.5.1. Qualification in any AFSC at the 7 - or 9-skill level, and be in the grade of E-6, E-7, or E-8.
3.5.2. Ability to write effectively and speak distinctly.
3.5.3. Familiarity with and understanding of a wide range of Air Force programs affecting personnel policy, housing management, education, and other family programs.

SDI 8D000

LINGUIST DEBRIEFER/INTERROGATOR

1. Special Duty Summary. Collects intelligence information. Screens documents for human source leads. Assesses, debriefs, and interrogates human resources in English and in foreign languages. Translates written material, and interprets conversation from one language to another. Responds to requirements; writes and evaluates intelligence reports (IR). Performs case officer duties. Supervises linguistic interviews, debriefings, and interrogations. Related DoD Occupational Subgroup: 241.

2. Duties and Responsibilities:

2.1. Collects intelligence information. Screens documents to identify human source leads. Contacts and assesses leads to determine value and validity of source information. Conducts in-depth debriefings during peacetime and interrogations during war. Performs case officer duties. Responds to intelligence community requirements. Prepares IRs and summaries from collected data citing specific requirements. Practices and applies security controls.

2.2. Translates written material from one language to another. Produces complete translation of written or printed material from one language to a comparable document in another language. Uses idiomatic expressions of the language to preserve the actual intent or expression. Screens foreign language materials, such as newspapers, periodicals, scientific papers and manuals, combat orders, administrative directives, messages, personnel records, and intelligence reports for information relevant to aerospace and other United States intelligence requirements.

2.3. Interprets statements and conversations expressed in English or foreign languages. Acts as a translator. Orally translates verbal statements into the desired language, using correct phraseology and eliminating personal prejudice or belief, in order to convey the original intent or meaning.

2.4. Works within the guidance of the human resources intelligence tracking system. Applies validated requirements to screenings, assessments, debriefings, interrogations, and evaluations. Ensures the requirements library is current, reports are a result of serviced requirements, and all applicable requirements are applied to the collected information. Maintains an open channel of communication between the collector and the consumer to ensure collected data is distributed where needed.

2.5. Debriefs and interrogates personnel. Debriefs United States and foreign human sources for intelligence information. Interrogates prisoners of war, enemy deserters, and civilians. Uses applicable established methods during the interviews or interrogations. Screens persons subject to debriefings or interrogations by examining biographical records, personal documents, and subject's demeanor, grade, and apparent status. Learns the reliability of the source, and establishes rapport with the source. Inserts field comments in the IR on the probable truth of information collected.

2.6. Processes and distributes intelligence information. Collects intelligence information on subjects such as: proposed scientific and technical items; order of battle; facility layouts at military and other installations; biographies of civilian and military personalities; counterintelligence activities; and geographical, political or economic facts about target areas. Groups information collected by subject requirement. Publishes message knowledgeability briefs, notice of intelligence potential, and requests for requirement to alert the intelligence community on source availability and knowledgeability. After assembling all source-directed requirements, performs in-depth debriefings. Distributes collected intelligence to user agencies by printed or message IR, depending on perishability of collected data and collection requirements.

2.7. Performs analyst duties. Determines if collections are of present or future value. Establishes probable truth of information. Interprets and establishes meaning of information in connection with what is already known. Determines whether collected data modifies, negates, or adds significantly to information previously collected or tends to confirm or refute the existing estimate of the situation. Makes required changes to the data base. Distributes evaluated data to using activities and decision making agencies by most expedient means. Forwards evaluations of collected data to the IR originator.

2.8. Establishes and maintains a reference library. Establishes and maintains reference materials such as language dictionaries, maps and charts, weapon systems handbooks and guides, and manuals of foreign and domestic governmental or military subjects related to current requirements.

3. Special Duty Qualifications:

3.1. Knowledge. Knowledge is mandatory of: domestic and foreign aircraft and weapons systems, military organizations, maps, signs and symbols; techniques of interviewing, debriefing, and interrogating to obtain intelligence information, scientific detail; personality characteristics, traits, and habits of people of a designated geographical area; Air Force intelligence report writing and disseminating procedures and methods; security directives; and practices for handling, disseminating and safeguarding military and political data.

3.2. Education. For entry into this SDI:

3.2.1. Completion of high school or general educational equivalency is mandatory.

3.2.2. Completion of courses in effective writing, speech, and a foreign language is desirable.

3.2.3. Completion of college-level courses in English is desirable.

3.3. Training. For retention of this SDI, completion of the Intelligence Operations Specialist course and the DoD Strategic Debriefing and Interrogation course is mandatory.

3.4. Experience. Not used.

3.5. Other:

3.5.1. For entry, award, and retention of this SDI, ability to read, comprehend, write, and speak a foreign language is mandatory.

3.5.2. For award and retention of this SDI, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program* is mandatory.

SDI 8E000

RESEARCH AND DEVELOPMENT TECHNICIAN

1. Special Duty Summary. Performs as engineer, scientist, or engineering and scientific technician in support of scientific or engineering research and applications functions involving observation, study, and experimentation with the Human Systems Division or with the Research and Technology Laboratories, the Air Force Flight Test Center, or other Air Force activities. Related DoD Occupational Subgroup: 496.

2. Duties and Responsibilities:

2.1. Participates in research or engineering projects. Participates in planning, coordinating, collecting, evaluating, and interpreting data and writing reports detailing the results of research or applied engineering investigations. Explores and tests new ideas. Assists or conducts research on different aspects of experimental problems in biological, physical, or social sciences; engineering; or mathematics. Applies knowledge of scientific principles to problems associated with scientific experimental objectives. Uses deductive logic and reasoning from known scientific principles or rules to arrive at conclusions about specific cases. Assists researchers or engineers, or performs as the engineer responsible for the development or improvement of materials and products. Checks materials quality and equipment performance.

2.2. Collects and analyzes material. Performs as research worker or engineering technician aide in collecting information on experimental problems. Studies technical journals and books to determine results of prior research on problems. Provides abstracts or summaries of factual information relative to the problem, and assists in developing possible solutions. Performs other duties that use specific, specialized expertise possessed by the individual.

2.3. Provides specialized management for acquisition programs. Directs and participates in efforts to establish the technical, military, and economic bases for a program in the conceptual phase, throughout the validation, full scale engineering development, and production and deployment phases of the acquisition life cycle. Interfaces with defense contractors.

2.4. Performs program office management. Assists the program manager by performing various managerial and supervisory tasks associated with such functions as program control, configuration management, test and deployment, engineering, and integrated logistics support. Assesses the program office’s overall performance, and prepares status briefings for the program manager's use. Prepares key program documentation such as the program management plan and the integrated logistics support plan. Takes part in organization, administration, and configuration management and preparing and executing system and subsystem management. Serves as project officer or manager for a discrete portion of a system, either hardware or software, and system integration. Responsible for identifying and resolving all subsystem, hardware, and software interface or logistic problems in support of system design.

3. Special Duty Qualifications:

3.1. Knowledge. Knowledge is mandatory of research and scientific experimentation procedures and engineering practices.

3.2. Education. For entry into this specialty, it is desirable to possess a bachelor's degree in physical sciences, engineering, or biology; or a minimum of 60 hours of mathematics and 12 semester hours of science oriented courses such as physics, chemistry, engineering, biology, logistics, and industrial or computer science (or equivalent technical academic courses).

3.3. Training. Not used.

3.4. Experience. A minimum of 12 months "hands-on" expertise in an area of specialization listed in paragraph 2, Duties and Responsibilities, which can be effectively utilized in a specific Air Force Research and Development activity is mandatory. This mandatory requirement can be satisfied by meeting one of the desirable education requirements in 3.2 above.

3.5. Other. Not used.

SDI 8F000

FIRST SERGEANT

1. Special Duty Summary. Advises and assists the commander in managing unit activities; and exercises general supervision over assigned enlisted personnel. Related DoD Occupational Subgroup: 521.

2. Duties and Responsibilities:

2.1. Advises and assists the commander in maintaining discipline and standards regarding quality force. Provides guidance to assigned enlisted personnel on matters of leadership, military courtesy, personal appearance, self-discipline, and personal adherence to standards. Helps ensure all supervisors set an appropriate example for subordinates. Corrects conduct prejudicial to good order and discipline. Coordinates and cooperates with military and civil police authorities.

2.2. Promotes welfare, morale and health of enlisted personnel. Ensures frequent contact with unit enlisted personnel at work, housing, and recreation areas. Advises commander on status of unit morale and welfare, and promotes unit recreation and social programs. Counsels enlisted personnel and takes action to resolve problems or complaints. Coordinates resolution of complex problems with commander and all base agencies. Represents the commander at base meetings and councils, and when conducting tours through unit areas. Maintains liaison with base agencies to ensure the best possible services and facilities for enlisted personnel. Visits enlisted personnel in the hospital or confinement, and helps them take care of personal matters.

2.3. Assists commander in preparing and presenting unit training and information programs. Attends staff meetings and assists commander at commander's call. Helps enlisted personnel adapt to military environment and adjust to the organization and duty assignment. Ensures enlisted personnel get training in military subjects such as dress, customs and courtesies, drill and ceremonies, housekeeping, hygiene, and sanitation. Monitors unit sponsorship program and conducts orientation programs for newly assigned enlisted personnel. Supports and promotes professional military education activities.

2.4. Supervises care and upkeep of unit dormitories and adjacent grounds. Ensures enlisted personnel are assigned to area and building maintenance duties, and supervises dormitory management activities. Monitors procurement of dormitory and recreational supplies and equipment. Ensures coordination with civil engineering and services personnel to maintain proper maintenance and repair. Inspects dormitories, dayrooms, and unit areas, and initiates corrective action when required.

2.5. Monitors unit administration. Supervises administrative actions directed by the commander. Coordinates with supervisors of enlisted personnel to schedule unit functions and duties, leaves and passes, and other absences from duty. Performs quality force review and ensures timely processing of performance reports, awards and decorations, favorable communications, promotions, demotions, classification actions, quality control actions, and disciplinary actions.

3. Special Duty Qualifications:

3.1. Knowledge. Knowledge is mandatory of: personnel management with emphasis on quality force indicators, personnel, and administration; military training; Air Force organization; drill and ceremonies; customs and courtesies; sanitation and hygiene; military justice; and counseling techniques.

3.2. Education. For entry into this SDI, completion of high school or general educational development equivalency, and USAF Senior Noncommissioned Officer Academy course (in residence or correspondence) is mandatory.

3.3. Training. For retention of this SDI, completion of the First Sergeant's Academy in residence is mandatory.

3.4. Experience. Not used.

3.5. Other. The following are mandatory for entry into this SDI:

3.5.1. Ability to speak distinctly.

3.5.2. Be an E-7 or above.

3.5.3. Prior qualification at the 7- or 9-skill level in any AFSC.

SDI 8G000

UNITED STATES AIR FORCE HONOR GUARD

1. Special Duty Summary. Performs as a member of the United States Air Force Honor Guard representing the Air Force at ceremonies where protocol or custom dictates using an honor guard or military escort. Related DoD Occupational Subgroup: 830.

2. Duties and Responsibilities:
2.1. Performs as a member of the United States Air Force Honor Guard. Symbolizes the United States Air Force to American and foreign dignitaries at public ceremonies in the Washington, DC area. Participates in Air Force and joint service arrival and departure ceremonies for the President, foreign heads of state, and other national or international dignitaries.
2.2. Acts as an escort or member of an honor guard unit. Participates in Air Force and joint service ceremonies on special occasions such as state or Air Force funerals, wreath ceremonies, and color guard and escort duties at civil and military events and ceremonies in the Washington, DC area.
2.3. May participate in the United States Air Force Honor Guard Drill Team. Participates as a member of the Honor Guard Drill Team, performing intricate drill routines at civil and military events and ceremonies.
2.4. Plans and conducts United States Air Force Honor Guard activities. Plans and conducts United States Air Force Honor Guard participation in Air Force and joint service ceremonies. Advises Air Force activities and coordinates on matters pertaining to ceremonies and protocol.

3. Special Duty Qualifications:
3.1. Knowledge. Knowledge is desirable of military customs and ceremonies.
3.2. Education. For entry into this SDI, completion of high school with courses in government and physical education is desirable.
3.3. Training. Not used.
3.4. Experience. Not used.
3.5. Other. The following are mandatory for entry, award, and retention of this SDI:
3.5.1. Investigation and approval according to AFPD 31-5, *Personnel Security Program Policy*, and AFI 31-501, *Personnel Security Management Program*.
3.5.2. Have outstanding military bearing and appearance.
3.5.3. Be in excellent physical condition with excellent physical coordination.
3.5.4. Not wear glasses other than contact lenses or reading glasses.
3.5.5. Have no conviction under the Uniform Code of Military Justice (UCMJ) during current enlistment.

NOTE: This SDI will be awarded only to airmen assigned or performing duty in the United States Air Force Honor Guard.

SDI 8J000

CORRECTIONAL CUSTODY SUPERVISOR

1. Special Duty Summary. Supervises installation correctional custody programs. Related DoD Occupational Subgroup: 831.

2. Duties and Responsibilities:

2.1. Plans, organizes, and directs installation correctional custody program. Determines requirements for personnel augmentation, facilities, space, equipment, and supplies to support correctional custody requirements. Monitors the correctional custody program to ensure effective use of support items. Plans, organizes, and monitors daily work assignments of personnel in correctional custody using established base programs and available facilities. Plans use of nonappropriated funds for equipment. Organizes and manages a nonduty training program for personnel in correctional custody.

2.2. Inspects and evaluates correctional custody activities, personnel, and facilities. Assists the base commander in identifying and correcting operational deficiencies. Evaluates airmen in correctional custody for adaptability and attitude, and identifies those who require additional administrative action. Coordinates with base units to ensure program understanding and placement of personnel in productive jobs during normal duty hours.

2.3. Prepares files and maintains correctional custody records. Maintains performance records on each airman in correctional custody. Prepares statistical reports and records.

3. Special Duty Qualifications:

3.1. Knowledge. Knowledge is mandatory of: principles, techniques, and policies of the correctional custody program; UCMJ; the military correctional program; evaluation procedures; and counseling methods and techniques.

3.2. Education. Completion of high school or GED equivalent is desirable.

3.3. Training. Not used.

3.4. Experience. Not used.

3.5. Other. The following are mandatory for entry into this SDI:

3.5.1. Never been convicted by a general, special, or summary court-martial.

3.5.2. Possess high standards of military appearance and conduct.

3.5.3. Never been convicted by a civilian court, except for minor traffic violations and similar infractions.

3.5.4. Recommended by unit commander.

SDI 8M000

POSTAL

1. Special Duty Summary. Performs postal finance, mail handling, locator service, and mail distribution functions. Related DoD Occupational Subgroup: 554.

2. Duties and Responsibilities:

2.1. Performs postal financial services. Sells postage stamps, metered tape, and stamped paper to patrons and other postal clerks. Responsible for postage stock issued by postal finance officer or Air Force postal clerk and funds derived from selling postage stock. Maintains adequate postage stock to service patrons. Responsible for blank money orders issued by postal finance officer or Air Force postal clerk. Issues and pays postal money orders. Remits funds derived from selling postage stock, metered tape, and money orders to appropriate individual or office.

2.2. Accepts items for mailing, and advises patrons of applicable postal and customs regulations. Accepts items from patrons for mailing. Determines packing mailability and adequacy. Advises patrons of customs requirements. Computes charges for postage and special service fees. Affixes appropriate endorsements for category of mail and special services requested. Prepares appropriate receipts on items accepted as insured, certified, or registered mail, and affixes appropriate identification to such mail. Safeguards and accounts for items accepted as registered mail.

2.3. Performs receipt and dispatch functions, and provides security for registered mail. Postmarks and cancels outgoing mail. Checks for proper postage, and verifies forwarding endorsements. Separates and sorts mail into proper classes and destination or off-load points. Ties sorted mail into bundles, and affixes routing slips. Places mail in pouches or sacks, and prepares and affixes routing labels. Prepares manifest for mail, and ensures dispatch by most expeditious means consistent with established schedules and transportation category of mail. Receives incoming mail from military or commercial carriers. Checks manifest against mail received to ensure proper receipt. Sorts incoming mail according to mail distribution schemes, and delivers mail to postal service centers. Provides security for registered mail at commercial terminals. Records accountable mail on receipts before delivery to recipient and postal service center.

2.4. Operates postal service centers, and performs postal locator service. Distributes personal mail to individual United States Postal Service (USPS) lock boxes. Places notices in lock boxes for recipients of large items and accountable mail to call at the service window to claim these items.

2.5. Maintains postal records, prepares forms and reports, and performs postal supply clerk functions. Prepares and submits postal operations reports. Maintains USPS publications, current mail distribution schemes, military post office location lists, mail distribution instructions, and labeling catalogs. Processes USPS claims for lost or damaged mail. Maintains adequate supply of postal forms and equipment, and requisitions replacement items from the postal finance supply officer.

3. Special Duty Qualifications:

3.1. Knowledge. Knowledge is mandatory of appropriate USPS manuals, DoD and Air Force postal regulations, appropriate postal forms, and arithmetic computations.

3.2. Education. For entry into this SDI, completion of high school or general educational equivalency is desirable. Also, courses in business English, mathematics, and typing are desirable.

3.3. Training. For retention of this SDI, completion of the postal operations course is mandatory.

3.4. Experience. For entry into this SDI, experience in face-to-face dealing with the public, in the handling of funds, and in mail processing is desirable.

3.5. Other. Not used.

SDI 8P000

COURIER

1. Special Duty Summary. Performs as custodian to safeguard Armed Forces Courier Service material. Related DoD Occupational Subgroup: 554.

2. Duties and Responsibilities:

2.1. Safeguards and delivers Armed Forces Courier Service material. Provides adequate protection for material from receipt through delivery or to storage; and cautions handlers to exercise care in storing material. Verifies each item by identification number when receipting for or delivering material. Maintains constant surveillance over material in custody on the courier route.

2.2. Assures positive identification of Armed Forces couriers. Makes positive identification of Armed Forces couriers, addresses, and Top Secret control officers before releasing material.

3. Special Duty Qualifications:

3.1. Knowledge. Knowledge is mandatory of Armed Forces Courier Service instructions and operating instructions.

3.2. Education. For entry into this SDI, completion of high school or general educational equivalency is mandatory.

3.3. Training. Not used.

3.4. Experience. Not used.

3.5. Other. The following are mandatory as indicated:

3.5.1. For entry into this SDI, physical qualification for frequent aerial flights according to AFI 48-123, *Medical Examination and Standards,* Class III medical standards.

3.5.2. For entry, award, and retention of this SDI, security standards according to DoD 5200.33*, Defense Courier Service*.

SDI 8P100

DEFENSE ATTACHÉ
(Changed 30 Apr 97)

1. Specialty Duty Summary. Manages and maintains Defense Attaché Office (DAO) budget and fiscal data, maintains DAO information files, coordinates United States (US) Naval ship visits and US military aircraft over-flight and landing clearances with host country officials, coordinates office support requirements with embassy officials, and performs office administrative and support duties according to Defense Intelligence Agency (DIA) standards. Related DoD Occupational Subgroup: 510.

2. Duties and Responsibilities:
2.1. Maintains DAO budget and fiscal data. Prepares and submits the DAO budget according to DIA regulations and guidance provided by the embassy budget and fiscal officer. Projects budget requirements for DAO rental housing; house furnishings; and purchases and maintenance of vehicles, travel, and salaries of US civilian and foreign nationals employed by DAO.
2.2. Maintains DAO reporting requirements. Submits and updates information reports. Maintains the master suspense file for all DAO information reporting and updates reporting requirements directed by higher headquarters. Prepares, edits, and types information reports for attaches. Maintains central research files. Provides feedback to attaches on quantity and quality of their information reporting. Maintains information reporting statistics.
2.3. Coordinates US naval ship visits and US military aircraft over-flight and landing clearances with host country officials. Obtains diplomatic clearance for ship visits and aircraft over-flights and landings from the host government. Provides briefings to US ship and aircrew members concerning host country immigration, laws, customs, and courtesies. Arranges for lodging and transportation, provides information on local tours, sporting events, and community relations projects for crews. Arranges for handling of US military aircraft at host country's civilian airfields (includes aircraft services such as fuel, power carts, lighting, and security). Arranges for handling of US Naval vessels at host country ports (including food, water, and banking services).
2.4. Coordinates DAO support requirements with embassy officials. Procures housing, house furnishings, and official vehicles for DAO personnel. Arranges shipping of privately-owned vehicles and household goods; obtains passports and visas. Purchases office supplies.
2.5. Performs DAO administrative duties. Maintains correspondence files, forms, technical orders, and publication accounts. Prepares, types, edits, and dispatches office correspondence. Conducts personnel and financial actions for assigned military and civilian personnel, to include coordinating with embassy officials and representatives of various U.S. military services.

3. Special Duty Qualifications:
3.1. Knowledge. Not used.
3.2. Education. For entry into this SDI, completion of high school or general educational development equivalency is mandatory.
3.3. Training. For retention of this SDI, completion of training with the Joint Military Attache School in Washington, D.C. is mandatory.
3.4. Experience. Not used.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this SDI:
3.5.1.1. Be an E-5, 7-skill level, or above.
3.5.1.2. No record of military or civilian convictions (except minor traffic violations).
3.5.1.3. No record of disciplinary action or financial irresponsibility.
3.5.1.4. Minimum typing ability of 35 words per minute.
3.5.2. For entry, award, and retention of this SDI, eligibility for a Top Secret security clearance according to AFI 31-501 *Personnel Security Management Program*.

SDI 8R000

RECRUITER

1. Special Duty Summary. Organizes and conducts programs to recruit sufficient personnel to satisfy the requirements of the United States Air Force. Related DoD Occupational Subgroup: 501.

2. Duties and Responsibilities:

2.1. Conducts recruiting program. Develops information sources such as employment agencies, driver's license and job market lists, high school and college student lists, and separation reports, in securing names of potential prospects for active duty enlistment, commissioning, and the Air Force Reserve Officer Training Corps. Makes oral and film presentations to high school and college classes to establish contact with prospects. Maintains informational records to enable follow-up contacts with prospective enlistees. Prepares enlistment and commissioning case files on personnel enlisting or applying for a commission in the United States Air Force. Informs interested persons of military obligations, officer and airman career structure, educational and training opportunities, and other military benefits and entitlements.

2.2. Develops publicity program. Plans and directs sales promotional projects using media such as direct mail, press, radio, and television presentations. Writes copy and edits simple news stories and photograph captions. Presents Air Force orientations to civic, social, educational, and student organizations. Distributes advertising and publicity materials to places frequented by persons of military age. Mails literature to persons of military age to stimulate interest in the Air Force.

2.3. Develops community relations programs. Assists and participates in special events such as state and municipal ceremonies, exhibits, fairs, parades, centennials, and sporting events. Plans for and accompanies groups on tours of military installations. Participates in community activities such as fund raising drives, blood donor drives, and patriotic holidays. Establishes and maintains contact with high school, college, business, and industry officials to enhance the prestige of the Air Force in the community.

2.4. Performs Military Entrance Processing Station (MEPS) liaison and production management duties. Ensures proper coordination between the Air Force and MEPS commander and proper scheduling of Air Force applicants to the MEPS is accomplished. Assists in obtaining the initial classification for Air Force applicants. Coordinates on recruiting operational matters and interprets recruiting directives for assigned units.

2.5. Supervises recruiting activities. Develops and maintains market data, and allocates recruiting goals. Collects and monitors production reports of recruiting activities. Implements plans and procedures to record production flow and reporting. Ensures proper distribution and use of advertising and publicity materials. Manages and controls lead resources. Provides management assistance in support of all recruiting programs. Assists in policy development and ensures timely implementation.

3. Special Duty Qualifications:

3.1. Knowledge. Knowledge is mandatory of the organization, mission, policies, and history of the United States Air Force.

3.2. Education. For entry into this SDI, completion of high school or general educational equivalency is mandatory.

3.3. Training. For retention of this SDI, completion of the recruiter course is mandatory.

3.4. Experience. For entry into this SDI, prior qualification at the 5-skill level (3-skill level if no 5 level exists) in any AFSC is mandatory.

3.5. Other. Not used.

SDI 8S000

MISSILE FACILITY MANAGER
(Changed 30 Apr 94)

1. Special Duty Summary. Performs routine equipment inspections and emergency operating procedures; responds to actions directed by the missile combat crew at the missile alert facility (MAF); and supervises daily activities at the MAF. Related DoD Occupational Subgroup: 521.

2. Duties and Responsibilities:
2.1. Performs normal and emergency procedures and inspections on MAF equipment. Inspects water treatment systems, power production systems, lighting and temperature controls, and other support systems required for daily operation. Performs water treatment system and diesel generator tests and adjustments. Performs facility equipment tests, adjustments, and maintenance as directed by base civil engineering and missile maintenance. Maintains and inspects assigned vehicles. Operates snow control vehicles. Conducts and reports basic weather observations. Operates land mobile radio systems. Operates and performs maintenance on self-contained breathing apparatuses.
2.2. Responds to actions as directed. Assists the missile combat crew to ensure proper operation of the MAF. Assists the missile combat crew to correct abnormal situations in the launch-control-equipment building and soft-support building. Resets circuit breakers and performs equipment-restart and troubleshooting procedures as directed by the crew. Represents missile squadron commander in soft support area of MAF. Functions as shelter manager for the MAF. May be required to provide emergency medical aid.
2.3. Supervises daily activities at MAF. Primary escort official for soft support areas and launch control equipment building. Issues, receives, and accounts for fuel. Manifests and acts as ground crew for helicopter operations. Assigns rooms and issues bedding for assigned and transient personnel. Maintains accountability for supplies and equipment. Functions as area fire warden and safety monitor. Maintains and uses Air Force indexes, publications, and filing systems to maintain referenced accountability.

3. Special Duty Qualifications:
3.1. Knowledge. For retention of this SDI, knowledge is mandatory of Air Force administrative, supply, accounting, and building maintenance procedures.
3.2. Education. For entry into this SDI, completion of high school is desirable.
3.3. Training. Not used.
3.4. Experience. Not used.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this SDI:
3.5.1.1. Possess grade of E-4 through E-8.
3.5.1.2. No record of emotional instability, disciplinary action, or financial irresponsibility.
3.5.2. For entry, award, and retention of this SDI, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

SDI 8S100

SENSOR OPERATOR

1. Special Duty Summary. Operates infrared and low light level television (LLLTV) sensor systems, illuminator equipment, and allied components; and performs aircrew functions. Related DoD Occupational Subgroup: 050.

2. Duties and Responsibilities:

2.1. Operates infrared LLLTV sensor systems, and illuminator equipment. Performs mission planning by assembling target information, locating forces, and hostile defense locations. Assists in navigation and fire control planning. Pre-flights and postflights infrared and LLLTV sensor systems, illuminator equipment, and allied components. Operates and monitors infrared and LLLTV detection systems by searching for, acquiring, and identifying targets. Provides guidance to fire control personnel to ensure hostile target destruction. Coordinates with other aircrew members to verify and validate targets and battle damage assessment.

2.2. Prepares mission and maintenance reports. Prepares in-flight mission reports and assures proper documentation of equipment malfunctions in required forms and reports. Participates in maintenance, operations, and intelligence briefings. Operates illuminator and dispensing equipment.

3. Special Duty Qualifications:

3.1. Knowledge. Knowledge is mandatory of: functions and performance of the infrared and LLLTV sensor systems, illuminator dispenser equipment, and allied components; use of personal equipment and oxygen; in-flight and emergency procedures; and current flying directives.

3.2. Education. For entry into this SDI, completion of high school with courses in electronics or physics is desirable.

3.3. Training. For retention of this SDI, completion of a sensor operator course is desirable.

3.4. Experience. For entry into this SDI, prior qualification at the 7-skill level in any AFSC is mandatory.

3.5. Other. For entry, award, and retention of this SDI, physical qualification for aircrew duty according to AFI 48-123, *Medical Examination and Standards,* Class III medical standards is mandatory.

SDI 8T000

PROFESSIONAL MILITARY EDUCATION INSTRUCTOR

1. Special Duty Summary. Conducts professional military education (PME) programs for airmen, noncommissioned officers (NCO), and civilians; provides management consultant services. Related DoD Occupational Subgroup: 012.

2. Duties and Responsibilities:

2.1. Instructs PME subjects. Instructs both indoors and outdoors, using demonstration-performance, lecture, case study, teaching interviews, guided discussion, and other teaching methods. Uses film and slide projection equipment, videotape, television, and other audiovisual equipment in support of educational goals.

2.2. Plans, organizes, and directs PME programs and activities. Plans and organizes PME requirements for education, facilities, space, equipment, visual aids, and supplies. Develops and revises curriculum materials. Monitors entire education program. Plans and organizes phases of education, student flow, and class schedules consistent with production goals and available resources.

2.3. Inspects and evaluates PME activities, personnel, and facilities. Conducts periodic inspection of school activities, and assists schools in deficiency corrections. Evaluates student performance. Counsels and advises individuals on academic and nonacademic problems. Monitors and ensures facilities support educational mission.

2.4. Prepares and maintains files and records pertinent to PME matters. Prepares and maintains administrative records on each student. Prepares statistical reports and records about student accountability. Maintains completed school record files for historical review.

2.5. Provides management consultant services. Conducts and administers symposiums, workshops, or conferences; interprets organizational surveys; analyzes organizational climates; and provides client feedback.

3. Special Duty Qualifications:

3.1. Knowledge. Knowledge is mandatory of: principles, techniques, and methods of instructions; use of visual aids; learning processes; curriculum development education and training evaluation; and counseling methods and techniques.

3.2. Education. For entry into this SDI, completion of high school or general educational equivalency is desirable.

3.3. Training. The following training is mandatory as indicated:

3.3.1. Completion of a certified resident or in-resident NCO PME course is mandatory. The course must be equal to or higher than the course in which member is assigned duty.

3.3.2. For those who will conduct PME courses, completion of the Technical Instructor Course, the Academic Instructor Course, or the Academic Instructor School.

3.3.3. For instructor duty in the NCO Orientation course (Phase I) and USAF Supervisor's Course (Phase II), completion of the AF Leadership and Management Instructor Course.

3.4. Experience. For entry into this SDI, prior qualification in any AFSC at the 5-skill level or higher (3-skill level if no 5-skill level exists) is mandatory.

3.5. Other. The following are mandatory as indicated:

3.5.1. For entry into this SDI:

3.5.1.1. Ability to speak clearly is mandatory.

3.5.1.2. Recommendation by unit commander.

3.5.2. For entry, award, and retention of this SDI, possession of high standards of military appearance and conduct.

Attachment 5

AIRCREW OPERATIONS CAREER FIELD (1A)

INTRODUCTION

The Aircrew Operations Career Field encompasses the functions of program formulating, policy planning, inspecting, training and directing, and performing combat and operations pertinent to enlisted primary aircrew activities. Included are supervising and performing primary aircrew duties pertinent to in-flight refueling systems; performing aircraft flight engineer activities; loading, restraining, and off-loading cargo on military aircraft; airdropping cargo and personnel; performing airborne communications systems operations activities; and performing aircrew duties associated with operating airborne command and control systems equipment. These duties include resolving airborne systems equipment technical problems that involve computer systems, radar and radio systems, and surveillance systems operations activities. The following is a complete listing of AFSCs for the Aircrew Operations Career Field.

AIRCREW OPERATIONS (1A)											
Input or Helper Level		**Apprentice or Semiskilled Level**		**Journeyman or Skilled Level**		**Craftsman or Advanced Level**		**Superintendent Level**		**Chief Enlisted Manager Level**	
1A011	In-Flight Refueling	1A031	In-Flight Refueling	1A051	In-Flight Refueling	1A071	In-Flight Refueling	1A091	In-Flight Refueling	1A000	In-Flight Refueling
1A111	Flight Engineer	1A131	Flight Engineer	1A151	Flight Engineer	1A171	Flight Engineer	1A190	Flight Engineer	1A100	Flight Engineer
B	Helicopter	B	Helicopter	B	Helicopter	B	Helicopter				
C	Perform-ance Qualified	C	Performance Qualified	C	Performance Qualified	C	Performance Qualified				
1A211	Aircraft Loadmaster	1A231	Aircraft Loadmaster	1A251	Aircraft Loadmaster	1A271	Aircraft Loadmaster	1A291	Aircraft Loadmaster	1A200	Aircraft Loadmaster
1A311	Airborne Comm Systems	1A331	Airborne Comm Systems	1A351	Airborne Comm Systems	1A371	Airborne Comm Systems	1A391	Airborne Comm Systems	1A300	Airborne Comm Systems
1A411	Airborne Battle Manage-ment	1A431	Airborne Battle Management	1A451	Airborne Battle Management	1A471	Airborne Battle Management	1A491	Airborne Battle Manage-ment s	1A400	Airborne Battle Manage-ment
				D	Weapons Dir	D	Weapons Dir				
1A511	Airborne Missions Systems	1A531	Airborne Missions Systems	1A551	Airborne Missions Systems	1A571	Airborne Missions Systems	1A591	Airborne Missions Systems	1A500	Airborne Missions Systems

CEM Code 1A000
AFSC 1A091, Superintendent
AFSC 1A071, Craftsman
Journeyman AFSC 1A051
Apprentice AFSC 1A031
Helper AFSC 1A011

IN-FLIGHT REFUELING

1. Specialty Summary. Performs in-flight refueling aircrew functions and activities according to flight manuals, checklists, and Unites States Air Force publications. Related DoD Occupational Subgroup: 050.

2. Duties and Responsibilities:
2.1. Performs in-flight refueling aircrew duties. Checks forms for equipment status. Performs visual and operational check of air refueling and associated systems and equipment. Performs pre-flight, through-flight, and post-flight inspections. Accomplishes pre-flight and post-flight records and reports. Performs in-flight operational check of air refueling systems. Directs receiver aircraft into air refueling position. Operates inflight boom controls and switches to safely affect contact between tanker and receiver aircraft. Monitors control panel for proper operation of equipment during air refueling, and advises receiver pilot of actions required to safely maintain position within the air refueling envelope. Keeps tanker pilot informed as to progress of air refueling operations. Performs emergency operations and procedures as required for emergency off-load and on-load of fuel. Preflights periscopic sextant, and assists navigator in making celestial observations.
2.2. Computes and applies weight and balance data, procedures, and techniques. Ascertains fuel, personnel, cargo, and emergency and special equipment weight and distribution to compute aircraft weight and balance. Ensures aircraft is properly loaded within safe operating limits, and applies weight and balance data in computing takeoff and landing data. Completes weight and balance forms for flight. Prepares loading plans, directs cargo loading, and inspects aircraft load to ensure weight and balance status of aircraft. Ensures adequate safety equipment and passenger comfort items are on aboard aircraft. Performs jumpmaster duties, and instructs passengers in use of emergency equipment and emergency procedures.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electrical and mechanical principles applying to aircraft and related systems; flight theory; aircraft electrical, hydraulic, and pneumatic systems applying to inflight refueling system; basic and celestial navigation procedures; preparing and using navigational charts; normal and emergency operation of aircraft refueling systems; flying directives; weight and balance factors; cargo tie-down techniques; minor inflight maintenance; using personal equipment and oxygen; communication and aircraft emergency procedures; and using and interpreting diagrams, loading charts, technical publications, and flight manuals.
3.2. Education. For entry into this specialty, completion of high school with courses in physics and mathematics is desirable.
3.3. Training. For award of AFSC 1A031, completion of a combat crew training school course is mandatory.
3.4. Experience. The following are mandatory for award of the AFSC indicated:
3.4.1. 1A051. Qualification in and possession of AFSC 1A031. Also, experience performing functions such as: inspecting, operating, and troubleshooting in-flight refueling systems; preparing loading plans; loading and unloading aircraft; and instructing passengers in the use of emergency equipment and procedures.
3.4.2. 1A071. Qualification in and possession of AFSC 1A051. Also, experience performing or supervising functions such as: inspecting, operating, and troubleshooting in-flight refueling systems; preparing loading plans; loading and unloading cargo on aircraft; and instructing passengers in the use of emergency equipment and procedures.
3.4.3. 1A091. Qualification in and possession of AFSC 1A071. Also, experience in directing functions pertaining to in-flight refueling operator activities.
3.5. Other. The following qualifications are mandatory as indicated:
3.5.1. For entry, award, and retention of these AFSCs:
3.5.1.1. Physical qualification for in-flight refueling operation duty according to AFI 48-123 *Medical Examination and Standards.*.
3.5.1.2. Qualification for aviation service according to *AFI 11-401, Aviation and Parachutist Service, Aeronautical Ratings and badges*.
3.5.2. For award and retention of AFSCs 1A031/51/71/91/00, eligibility for a Top Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

CEM Code 1A100
AFSC 1A190, Superintendent
AFSC 1A171*, Craftsman

Journeyman AFSC 1A151*
Apprentice AFSC 1A131*
Helper AFSC 1A111*

FLIGHT ENGINEER
(Changed 30 Apr 96)

1. Specialty Summary. Performs aircraft visual inspections and in-flight duties. Operates and monitors engine and aircraft systems controls, panels, indicators and devices. Manages flight engineer functions and activities. Related DoD Occupational Subgroup: 050.

2. Duties and Responsibilities:
2.1. Performs aircraft inspections. Performs aircrew visual inspection; non-scheduled aircraft maintenance; and pre-flight, through-flight, and post-flight inspections of aircraft away from home station. Maintains aircraft forms and records during flight and while aircraft is away from home station.
2.2. Computes and applies aircraft weight, balance, and performance data. Determines and verifies passenger, cargo, fuel, and emergency and special equipment distribution and weight. Computes aircraft weight and balance to ensure specified limits are maintained. Computes takeoff, climb, cruise, and landing data. Determines engine fuel consumption using airspeed, atmospheric data, charts, computer, or electronic calculator. Records actual aircraft performance data in flight engineer's log.
2.3. Operates and monitors engine and aircraft systems controls and indicators. Assists pilot or performs engine starts, and monitors runup, flight operations, and engine shutdown. Operates engine controls to provide desired efficiency and economy. Monitors engine instruments throughout period of operation. Controls, monitors, and regulates aircraft systems such as electric, communication, navigation, hydraulic, pneudraulic, fuel, air conditioning, and pressurization; ventilation; auxiliary power unit; and lubrication systems. Observes warning indicators and light for fire, overheat, depressurization, and system failure. Reports abnormal conditions to pilot, and recommends corrective action. Suffix B personnel are required to perform duties as gunner, hoist operator, and cargo sling operator.
2.4. Plans and organizes flight engineer activities. Organizes flight engineering standardization, qualification, and other requirements flight engineer logs, reports, and records for accuracy, completeness, format, and compliance with current directives. Coordinates with other agencies and organizations to conduct flight engineer activities.
2.5. Directs flight engineer activities. Administers qualification flight to personnel engaged in flight engineer activities within flight test and operations organizations. Directs standardization of flight engineer performance in conjunction with aircraft performance engineering, engine conditioning, and preventive maintenance programs. Ensures conformance with prescribed aircrew procedures.
2.6. Inspects and evaluates flight engineer activities. Evaluates individual and group performance in terms of effectiveness and qualification in using equipment and materials. Interprets and discusses evaluation findings, and recommends action to correct deficiencies.
2.7. Performs technical flight engineer functions. Resolves technical problems encountered by operating units. Renders advice and technical assistance to agencies engaged in functions associated with flight engineer activities. Advises organizational commander or staff agencies on status of flight engineer activities and adequacy of equipment. Maintains qualification in aircraft.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electrical, communication, navigation, mechanical, hydraulic, and pneumatic systems applying to aircraft and related systems; flight theory; minor in-flight maintenance; personal equipment and oxygen use; aircraft emergency procedures; and using and interpreting diagrams, schematics, aircraft performance charts, loading charts, technical publications and flight manuals.
3.2. Education. For entry into this specialty, completion of high school with course in mechanics and mathematics is desirable.
3.3. Training. Completion of the following training is mandatory for award of the AFSC indicated:
3.3.1. 1A131B. Completion of a helicopter flight engineer course.
3.3.2. 1A131C. Completion of the basic flight engineer course.
3.3.3. 1A151. Completion of an appropriate flying training course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1A151. Qualification in and possession of AFSC 1A131. Also, experience is mandatory in functions such as aircraft and performance weight and balance computations, aircraft records maintenance, and aircraft systems maintenance and inspections.

3.4.2. 1A171. Qualification in and possession of AFSC 1A151. Also, experience is mandatory in performing or supervising functions such as flight engineer activities.
3.4.3. 1A190. Qualification in and possession of AFSC 1A171. Also, experience managing flight engineer functions and activities.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, prior qualification at the 5- or 7-skill level in the 1A0, 1A2, 1A5, 2A1, 2A3X1/X3, 2A4X1/2, 2A5, 2A6, or 2M0 career field ladder, or possession of a valid Federal Aviation Administration (FAA) Flight Engineer certificate with a jet or turboprop rating, or valid FAA aircraft and power plant license.
3.5.2. For entry, award, and retention of these AFSCs:
3.5.2.1. Physical qualification for aircrew duty according to AFI 48-123, *Medical Examination and Standards,* Class III medical standards.
3.5.2.2. Qualification for aviation service according to AFI 11-402, *Aviation and Parachutist Service, Aeronautical Ratings and Badges*.
3.5.3. For award and retention of AFSC 1A131X/51X/71X/90/00, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

4. * Specialty Shredouts

Suffix	*Portion of AFS to Which Related*
B	Helicopter
C	Performance Qualified

CEM Code 1A200
AFSC 1A291, Superintendent
AFSC 1A271, Craftsman

Journeyman AFSC 1A251
Apprentice AFSC 1A231
Helper AFSC 1A211

AIRCRAFT LOADMASTER
(Changed 30 Apr 98)

1. Specialty Summary. Accomplishes loading and off loading aircraft functions; performs pre-flight and post-flight of aircraft and aircraft systems. Performs loadmaster aircrew functions, computes weight and balance and other mission specific qualification duties. Provides for safety and comfort of passengers and troops, and security of cargo, mail, and baggage during flight. Conducts cargo and personnel airdrops. Supervises loadmaster activities and related functions, including aircraft loading and off loading activities, cargo handling, and restraint. Related DoD Occupational Subgroup: 050.

2. Duties and Responsibilities:
2.1. Reviews aircraft weight and balance records and cargo manifest. Determines quantity of cargo and passengers or troops to be loaded and proper placement in aircraft. Computes load and cargo distribution. Computes weight and balance, and determines the amount of weight to be placed in each compartment or at each station. Considers factors such as fuel load, aircraft structural limits, and emergency equipment required.
2.2. Accomplishes initial pre-flight of aircraft according to flight manuals; pre-flights specific aircraft systems such as restraint rail and airdrop equipment. Operates radios, pre-flights aerospace ground equipment, and applies external power to the aircraft. Performs in-flight and special mission specific duties as required.
2.3. Supervises aircraft loading and off loading. Uses equipment such as 25K, 40K, and 60K loaders; forklifts; and winches. Ensures cargo and passengers are loaded according to load distribution plan. Directs application of restraint devices such as restraint rails, straps, chains, and nets to prevent shifting during flight. Checks cargo, passengers, and troops against manifests.
2.4. Ensures availability of fleet service equipment such as blankets and pillows. Signs for and stows in-flight meals. Briefs passengers and troops on use of seat belts, facilities, and border clearance requirements. Dispenses meals and refreshments. Demonstrates use of emergency equipment such as oxygen masks and life vests, and ensures access to escape hatches. Monitors cargo and passengers in-flight and assists passengers as required.
2.5. Conducts cargo and personnel airdrops according to directives. Attaches extraction parachutes to cargo and platforms. Inspects cargo and platforms, extraction systems and connects static lines. Checks tiedowns, parachutes, containers, suspension systems, and extraction systems to ensure proper cargo extraction or release. Operates aircraft personnel airdrop system and supervises paratroopers exiting the aircraft.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: types, capacities, and configuration of transport aircraft; arithmetic; emergency equipment and in-flight emergency procedures; personal equipment and oxygen use; communications; current flying directives; interpreting diagrams, loading charts, and technical publications; border agency clearance dispensing and preserving food aboard aircraft; and cargo restraint techniques.
3.2. Education. For entry into this specialty, completion of high school with courses in mathematics or general science is desirable.
3.3. Training. Completion of the Aircraft Loadmaster course is mandatory for award of AFSC 1A231.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1A251. Qualification in and possession of AFSC 1A231. Also, knowledge of types, capacities, and configuration of transport aircraft; weight and balance factors, arithmetic; cargo restraint techniques; emergency equipment and in-flight emergency procedures; using personal equipment and oxygen, communications; current flying directives; interpreting diagrams, loading charts, and applicable technical publications; border agency clearance requirements and forms; principles of dispensing and preserving food aboard aircraft; operation of cargo loading equipment; and cargo and personnel airdrop techniques and equipment.
3.4.2. 1A271. Qualification in and possession of AFSC 1A251. Also, experience in types, capacities, and configuration of transport aircraft; airdrop techniques; weight and balance factors; arithmetic; emergency equipment and in-flight emergency procedures; personal equipment and oxygen use; communications; current flying directives; interpreting diagrams, loading charts, and applicable technical publications; border agency clearance requirements and forms; principles of dispensing and preserving food aboard aircraft; and cargo restraint techniques.
3.4.3. 1A291. Qualification in and possession of AFSC 1A271. Also, experience in directing functions such as loading military cargo aircraft and establishing procedures for maintaining related records.
3.5. Other: The following are mandatory as indicated:

3.4.1. For entry, award, and retention of these AFSCs:
3.4.1.1. Physical qualification for aircrew duty according to AFI 48-123, *Medical Examination and Standards,* Class III medical standards.
3.4.1.2. Qualification for aviation service according to *AFI 11-402, Aviation And Parachutist Service, Aeronautical Ratings and Badges*.
3.4.2. For award and retention of AFSCs 1A231/51/71/91/00, eligibility for a secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

CEM Code 1A300
AFSC 1A391, Superintendent
AFSC 1A371, Craftsman

Journeyman AFSC 1A351
Apprentice AFSC 1A331
Helper AFSC 1A311

AIRBORNE COMMUNICATIONS SYSTEMS
(Changed 31 Oct 95)

1. Specialty Summary. Operates, inspects, troubleshoots, and performs maintenance on airborne communications, computer, display, and ancillary systems. Performs preflight and postflight inspections of airborne communications, navigation, computer, and weather radar systems. Supervises and instructs communications and computer systems operations and maintenance personnel in operation, maintenance, repair, and test procedures. Related DoD Occupational Subgroup: 201.

2. Duties and Responsibilities:
2.1. Performs aircrew functions. Performs preflight, in-flight, and postflight inspections. Analyzes airborne communications, technical and connectivity reports. Monitors aircraft systems for proper operation and ensures optimum in-flight communications. Operates aircraft emergency systems.
2.2. Performs and supervises airborne equipment operations and maintenance. Initializes, operates, monitors, tests, troubleshoots, isolates malfunctions, and repairs radio, audio distribution, switching, data, cryptologic, anti-jam, satellite communications, recording and playback, multiplex, self-defense, radio navigation, identification, Doppler navigation, direction finding, night vision, cockpit management, equipment cooling, power distribution, and computer systems; and peripheral devices. Monitors displays and indicators for equipment status using technical orders, built-in-test equipment, software diagnostics, special support equipment, checkout procedures, or other tests. Installs, operates, and monitors special support systems. Performs international Morse code and deceptive communications operations.
2.3. Performs aircraft scanner duties. Scans aircraft movement for obstacle, terrain and threat avoidance. Monitors aircraft systems to include engine, propeller, hydraulic, pneumatic, electrical, and flight control systems.
2.4. Plans and organizes mission materials. Coordinates information to determine aircraft status and establish operational links. Initiates, maintains, and analyzes systems performance, communications and maintenance logs. Adheres to communication security (COMSEC) procedures.
2.5. Manages airborne communications systems operations and maintenance. Manages COMSEC accounts. Resolves operational and technical problems. Ensures mission objectives regarding personnel adequacy, equipment status, and operating efficiency are attained.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electronics and radio theory including solid state components, digital techniques, and computer principles applied to airborne voice and data communications systems; digital data processing; general purpose computers and interface units; interpreting technical orders, schematics, wiring diagrams, and logic diagrams; and worldwide communications, direction-finding, multiplex, data and voice procedures.
3.2. Education. For entry into this specialty, completion of high school with courses in typing, speech, and English is desirable.
3.3. Training. For award of AFSC 1A331, completion of a basic airborne communications systems course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1A351. Qualification in and possession of AFSC 1A331. Also, experience operating and maintaining aircraft communications equipment and computer systems.
3.4.2. 1A371. Qualification in and possession of AFSC 1A351. Also, experience and qualification in advanced operations and maintenance of aircraft communications and computer systems.
3.4.3. 1A391. Qualification in and possession of AFSC 1A371. Also, experience managing advanced operations and maintenance of aircraft communications and computer systems.

3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standard*.
3.5.2. For entry, award, and retention of these AFSCs:
3.5.2.1. Physical qualification for aircrew duty according to AFI 48-123, *s*, flying Class III medical standards.
3.5.2.2. Qualification for aviation service according to AFI 11-402, *Aviation and Parachutist Service, Aeronautical Ratings and Badges*.
3.5.3. For entry, award, and retention of AFSCs 1A311/31/51/71, physical qualification for voice communications operations.
3.5.4. For award of AFSC 1A331, ability to type at a minimum rate of 25 words per minute.
3.5.5. For award and retention of AFSCs 1A331/51/71/91/00, eligibility for a Top Secret security clearance according to AFI 31-501, *Personnel Security Management Program.*

CEM Code 1A400
AFSC 1A491, Superintendent
AFSC 1A471*, Craftsman
Journeyman AFSC 1A451*
Apprentice AFSC 1A431
Helper AFSC 1A411

AIRBORNE BATTLE MANAGEMENT SYSTEMS
(Changed 30 Apr 98)

1. Specialty Summary. Operates, evaluates, and manages airborne battle management systems radar electronic identification, passive and active advanced sensors; electronic attack and electronic protect (EA/EP) systems and operations activities. Interprets computer generated displays and alarms. Gathers, records, displays and distributes mission information. Maintains communications nets with ground, air, and maritime units. Performs aircrew battle management functions. Provides radar control of air weapons. Identifies airborne objects and interfaces with other units. Performs and assists in mission planning. Maintains publications and currency items. Maintains and supervises communication nets with external agencies. Related DoD Occupational Subgroup: 221.

2. Duties and Responsibilities:
2.1. Operates airborne battle management systems surveillance and mission equipment. Makes sensor and battle staff console operational checks, and advises airborne supervisor of status. Initiates and maintains surveillance of air, ground, and maritime objects. Interprets computer-generated displays, data and alarms, and takes switch actions. Compares track positions with flight data and data base files to determine track identification. Performs and assists in mission planning and breaking air tasking orders. Formats initialization data. Monitors radio communications. Passes and receives immediate air request net data. Displays, records, and distributes operational information. Receives, transmits, and relays encoded and decoded messages from ground or other airborne battle management agencies. Uses coordinate reference systems. Monitors and maintains air situation display boards. Coordinates mission profile requirements with internal and external agencies. Prepares reports, and maintains logs, forms, and data base files. Performs preflight, in-flight, and postflight duties.
2.2. Gathers, displays, records, and distributes mission information. Gathers intelligence and threat data, and updates data base files. Displays sensor, identification, weather, and other mission data for battle managers. Records special interest track and mission information. Reports unusual weather, emergency signals, EA/EP or electronic support measures (ESM) observations. Maintains status of mission aircraft, targets, and air tasking order information. Distributes alert status and records information.
2.3. Performs EP and electronic support measures (ESM) functions. Uses EP techniques to degrade the effectiveness of electronic warfare activities or other external interference. Recommends procedures and techniques to improve EP effectiveness. Configures and uses ESM and passive detection equipment to assist in determining the location and identification of potential targets to eliminate or reduce the effects of EA. Maintains coordination with exterior agencies.
2.4. Performs weapons director functions to provide direction for friendly Air Forces to intercept, identify, and engage airborne, ground and maritime targets . Maintains proficiency in control of aircraft conducting missions such as interception, interdiction, close air support, search and rescue, combat air patrol, reconnaissance, offensive or defensive counter air, suppression of enemy air defenses and aerial refueling rendezvous. Responsible for safety of flight for aircraft under control.
2.5. Coordinates and exchanges air movement and identification information. Maintains liaison with air defense artillery, surface, and naval fire units to ensure safe passage of friendly air traffic, and to effectively use air weapons resources. Coordinates with air traffic control agencies concerning aircraft departure, enroute flight, safe recovery operations, and airspace control. Coordinates with aerospace rescue and recovery services and operations. Maintains liaison with weather forecasting and reporting agencies to obtain data required for mission execution. Relays threat warning data to aircrews and other agencies.
2.6. Supervises, evaluates, and monitors display of air, ground, and maritime activity. Evaluates individual aircrew in-flight performances and systems capabilities, and recommends improvements. Coordinates with airborne, ground, and maritime agencies in distributing and relaying operational threat and identification data. Monitors employment of assigned air assets and operations. Compiles operational data for mission reports. Identifies and corrects faulty operational techniques. Reviews trend analysis.

3. Specialty Qualifications:

3.1. Knowledge:

3.1.1. For award of AFSC 1A4X1X, knowledge is mandatory of: radar operation fundamentals, characteristics, and limitations of airborne battle management, surveillance, and mission systems; target detection and tracking capabilities; computer-generated console situation and tabular displays, electronically generated data, and air tasking orders; receiving, recording, and relaying operational threat data; identification procedures and techniques; EA/EP or ESM functions; data link requirements; communications systems; emergency procedures and equipment; maintaining publications; emergency action procedures; and theater air activities.

3.1.2. For award of AFSC 1A471D, knowledge is mandatory of air weapons control procedures and techniques, and aircraft performance characteristics and armament.

3.2. Education. For entry into this specialty, completion of high school or general educational development equivalency is mandatory.

3.3. Training. The following training is mandatory for award of the AFSC indicated:

3.3.1. 1A431. Completion of the basic airborne battle management systems course.

3.3.2. 1A451D. Completion of AWACS weapons director training.

3.4. Experience. The following experience is mandatory for award of the AFSC indicated:

3.4.1. 1A451. Qualification in and possession of AFSC 1A431. Experience in functions such as target detecting, tracking, reporting target information or, receiving, displaying, recording, and relaying threat command, control, and intelligence data from airborne battle management system functions and activities.

3.4.2. 1A451D. Mission ready certification as a weapons director.

3.4.3. 1A471. Qualification in and possession of AFSC 1A451. Also, experience performing or supervising, or airborne battle management system functions and activities.

3.4.4. 1A471D. Qualification in and possession of AFSC 1A451D. Experience required for annual qualification and certification as a mission ready weapons controller.

3.4.5. 1A491. Qualification in and possession of 1A471/71D. Experience in managing airborne battle management system functions and activities.

3.5. Other. The following are mandatory as indicated:

3.5.1. For entry, award, and retention of AFSCs 1A4X1/X1D:

3.5.1.1. Physical qualification for aircrew duty according to AFI 48-123, *Medical Examination and Standards*, Class III medical standards.

3.5.1.2. Qualification for aviation service according to *AFI 11-402, Aviation And Parachutist Service, Aeronautical Ratings and Badges*.

3.5.2. For entry into AFSC 1A451D individual must be an E-4 or above and possess AFSC 1A451.

3.5.3. For entry, award, and retention of AFSCs 1A451D/71D, physical qualification for Weapons Director duty according to AFI 48-123, *Medical Examination and Standards*.

3.5.4. For award and retention of AFSCs 1A431/51/51D/71/71D/91/00, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

4. *Specialty Shredouts

Suffix	*Portion of AFS to Which Related*
D	Weapons Director

NOTE: Shredout D is applicable to the 5- and 7-skill levels only.

CEM Code 1A500
AFSC 1A591, Superintendent
AFSC 1A571, Craftsman
Journeyman AFSC 1A551
Apprentice AFSC 1A531
Helper AFSC 1A511

AIRBORNE MISSIONS SYSTEMS
(Changed 31 Oct 95)

1. Specialty Summary. Operates, monitors, inspects, tests, maintains, optimizes and evaluates surveillance radar, computer, display, identification friend or foe (IFF), and ancillary systems equipment. Supervises and manages airborne mission system operation. Related DoD Occupational Subgroup: 150.

2. Duties and Responsibilities:
2.1. Inspects and performs flight duties on radar, computer, display, IFF and ancillary equipment. Performs airborne equipment maintenance, and pre-flight, in-flight, and post-flight inspections. Performs initial power-on and testing of mission systems equipment. Plans, organizes, and coordinates mission systems activities. Prepares reports on operating, maintaining, and repairing airborne missions systems equipment.
2.2. Operates, monitors, maintains, and tests radar, computer, display, IFF, and ancillary equipment to achieve optimum performance. Isolates malfunctions using visual inspections, special test equipment, built-in-test, fault-isolation-test, built-in-equipment, and diagnostic software routines. Monitors warning and failure indicators and lights for cooling loss, equipment overheat, and system failure. Removes and replaces defective components. Makes system adjustments using applicable software and technical order procedures. Directs personnel in operating and maintaining airborne mission systems. Advises and assists personnel on techniques for optimum equipment operation. Provides direction and assistance for assigned personnel to maintain work standards. Controls work flow.
2.3. Establishes, supervises, and directs aircrew training. Develops and directs instruction in equipment operation and troubleshooting. Ensures standardized procedures are used to teach in-flight equipment operation, maintenance, and repair. Determines need for specific instruction, and establishes training programs on mission systems.
2.4. Evaluates airborne mission systems operation and maintenance activities. Evaluates compliance with technical manuals, regulations, and work standards. Serves on or directs airborne mission systems inspection teams to evaluate in-flight maintenance and operational programs. Interprets inspection reports and prescribes corrective actions.
2.5. Manages operating and maintenance functions. Maintains operational inspection and maintenance records and documents. Reviews unusual and difficult problems in operation and in-flight maintenance of equipment. Recommends methods, techniques, and procedures to enhance maintenance and operational capabilities, and improve mission system options. Advises on mission systems operation and maintenance, and coordinates on research and development projects.

3. Specialty Qualification:
3.1. Knowledge. Knowledge is mandatory of: airborne radar and computer systems; mission systems forms and reports; electronic principles, including integrated and transistor circuits; pulsing techniques, shift registers, counters, buffers, logic gates, and flip flops; solid state devices, principles of radio frequency (RF), phase shifting devices, RF transmitters and receivers as applied to airborne warning and control radar and IFF systems; capabilities, limitations, operations, and functions of electronic test equipment; binary, octal, and hexadecimal numbering systems; basic computer programming techniques; interpreting technical orders, wiring diagrams, logic diagrams, wire lists, and processed data lists; digital data processing; general purpose computers and interface unit; pulse Doppler theory; software diagnostic routines; and maintaining nuclear hardness as it applies to airborne computer, data display, radar, IFF, and ancillary systems.
3.2. Education. For entry into this specialty, completion of high school or general educational development equivalency is mandatory. Also, completion of courses in physics, computer principles, and mathematics is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 1A531. Completion of the basic electronic computer system and E-3 familiarization maintenance course, the basic airborne warning and control radar maintenance course, and the E-3 airborne warning and control radar technician course.
3.3.2. 1A551. Completion of applicable field training detachment school.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1A551. Qualification in and possession of AFSC 1A531. Also, experience in functions such as operating, repairing, and testing electronic computer systems equipment, and using electronic test equipment, in-flight modification, repair, and maintenance of airborne warning and control or aircraft control and warning radars and IFF systems.
3.4.2. 1A571. Qualification in and possession of AFSC 1A551. Also, experience performing or supervising airborne computer systems and airborne radar systems activities.
3.4.3. 1A591. Qualification in and possession of AFSC 1A571. Also, experience is mandatory in managing functions such as in-flight operations, maintenance, and repair of airborne electronic mission and communications systems.

3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For entry, award, and retention of these AFSCs:
3.5.2.1. Physical qualification for aircrew duty according to AFI 48-123 Class III medical standards.
3.5.2.2. Qualification for aviation service according to *AFI 11-402, Aviation And Parachutist Service, Aeronautical Ratings and Badges*.
3.5.3. For award and retention of AFSC 1A531/51/71/91/00, eligibility for Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

Attachment 6

COMMAND AND CONTROL SYSTEMS OPERATIONS CAREER FIELD (1C)

INTRODUCTION

The Command and Control Systems Operations Career Field encompasses the functions involved in aerospace surveillance and aerospace vehicle detection, including missile warning systems, controlling, and plotting. This field includes control tower and airways operations; ground-controlled approach procedures; operation of all types of ground radar and related communications equipment, except weather equipment; either manual or semiautomatic plotting functions, or both, performed in aircraft filter centers and intercept control centers; establishing and providing air traffic control services in forward operating areas; operation of space surveillance and detecting and tracking equipment; operation of airborne search and height finding type of radar equipment; airfield management functions of dispatching, maintaining flight plan processing area of flight information data, and coordinating base operations and air operations functions with air traffic control agencies; operations systems management functions of maintaining custodial control and accountability of flight records, preparing and processing aeronautical orders and military pay orders, and compiling, recording, and auditing input data for resource management data systems; performance of command and control functions; operation of electronic warfare countermeasures equipment; functions of operating radio transceivers and associated equipment; performing preventive maintenance on radio communications and related equipment; submitting close air support, tactical air reconnaissance, and airlift mission requests; assisting forward air controllers in tactical air mission planning and operation; and providing terminal strike control as interim substitutes for forward air controllers in emergency conditions. The following is a complete listing of AFSCs for the Command Control Systems Operations.

COMMAND CONTROL SYSTEMS OPERATIONS (1C)

Input or Helper Level		Apprentice or Semiskilled Level		Journeyman or Skilled Level		Craftsman or Advanced Level		Superintendent Level		Chief Enlisted Manager Level	
1C011	Airfield Mgt	1C031	Airfield Mgt	1C051	Airfield Mgt	1C071	Airfield Mgt	1C091	Airfield Mgt	1C000	Air Operations
1C012	Ops Resource Mgt	1C032	Ops Resource Mgt	1C052	Ops Resource Mgt	1C072	Ops Resource Mgt	1C092	Ops Resource Mgt		
1C111	Air Traffic Con	1C131	Air Traffic Con	1C151	Air Traffic Con	1C171	Air Traffic Con	1C191	Air Traffic Con	1C100	Air Traffic Con
1C211	Combat Control	1C231	Combat Control	1C251	Combat Control	1C271	Combat Control	1C291	Combat Control	1C200	Combat Control
1C311	Command and Control	1C331	Command and Control	1C351	Command and Control	1C371	Command and Control	1C391	Command and Control	1C300	Command and Control
1C411	Tac Air Comd & Con	1C431	Tac Air Comd & Con	1C451	Tac Air Comd & Con	1C471	Tac Air Comd & Con	1C491	Tac Air Comd & Con	1C400	Tac Air Comd & Con
1C511	Aerosp Con & Warning Sys	1C531	Aerosp Con & Warning Sys	1C551	Aerosp Con & Warning Sys	1C571	Aerosp Con & Warning Sys	1C591	Aerosp Con & Warning Sys	1C500	Aerosp Con & Warning Sys
A	Manual Sys	A	Manual Sys	D	Weapons Dir	D	Weapons Dir				
B	SOCC	B	SOCC								
C	TACS	C	TACS								
1C611	Space Sys Ops	1C631	Space Sys Ops	1C651	Space Sys Ops	1C671	Space Sys Ops	1C691	Space Sys Ops	1C600	Space Sys Ops

AFSC 1C091, Superintendent **Apprentice AFSC 1C031**
AFSC 1C071, Craftsman **Helper AFSC 1C011**

AIRFIELD MANAGEMENT
(Changed 31 Oct 98)

1. Specialty Summary. Supervises and performs airfield management functions and activities. Coordinates with aircrews, air traffic control, and various base agencies that provide for safe operation of aircraft in the airfield environment and through national and international airspace. Related DoD Occupational Subgroup: 556.

2. Duties and Responsibilities:
2.1. Procures, maintains, and produces information on safe operation of aircraft through the national and international airspace system. Information includes flight plans, Flight Information Publications, aeronautical charts and maps, Notice to Airmen (NOTAM), local airfield and navigational aid status, and weather information.
2.2. Directs, assists, and provides aircrews with information and services to accomplish operational activities relating to airfield management and flight planning. Coordinates with base agencies to meet aircrew requirements for billeting, messing, refueling, transportation, and transient aircraft maintenance.
2.3. Inspects airfields. Plans and coordinates airfield construction. Ensures a safe operating environment for personnel and aircraft operation.
2.4. Performs mobile airfield management functions and activities for worldwide deployment of USAF aircraft.
2.5. Performs and supervises airfield management activities. Coordinates with agencies such as air traffic control, civil engineers, and command post to ensure support of airfield management activities.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: International Civil Aviation Organization; United States federal and military air regulation; aeronautical charts, maps, and publications; flight data and NOTAM systems; familiarity of navigational aids; basic aircraft design characteristics; fundamentals of meteorology; and principles of organization, purpose, operation, and management of airfield operational areas.
3.2. Education. For entry into this specialty, completion of high school with a course in typing is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 1C031. Completion of a basic airfield management course.
3.3.2. 1C071. Completion of the advanced airfield management course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1C051. Qualification in and possession of AFSC 1C031. Also, experience in functions such as: flight data processing, NOTAM processing, emergency response actions, and maintaining flight information data and supportive displays.
3.4.2. 1C071. Qualification in and possession of AFSC 1C051. Also, experience performing or supervising functions such as: airfield inspections, coordination of airfield construction or repairs, processing airfield waivers, or conducting airfield surveys of non-DoD airfields for use of USAF aircraft.
3.4.3. 1C091. Qualification in and possession of AFSC 1C071. Also, experience managing functions such as airfield management activities, preparing or reviewing policies and directives for airfield management or ensuring coordination with agencies to improve airfield management functions.
★3.5. Other. The following items are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For entry, award, and retention of these AFSCs:
3.5.2.1. Ability to speak distinctly.
3.5.2.2. Qualification to operate a government vehicle according to AFMAN 24-309, *Vehicle Operations*.
3.5.3. For award and retention of AFSC 1C031/51/71/91/00, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

CEM Code 1C000
AFSC 1C092, Superintendent
AFSC 1C072, Craftsman
Journeyman, AFSC 1C052
Apprentice AFSC 1C032
Helper AFSC 1C012

OPERATIONS RESOURCE MANAGEMENT
(Changed 31 Oct 96)

1. Specialty Summary. Performs and manages operations systems management activities and functions, including planning and scheduling, standardization and evaluation, flying and ground training, flight records, and squadron operations. Operates and maintains the Air Force operations resource management system (AFORMS). Related DoD Occupational Subgroup: 556.

2. Duties and Responsibilities:
2.1. Plans, organizes, and directs operations resource activities. Reviews mission accomplishment reports for accuracy. Prepares, analyzes, and summarizes reports and operations resource data, aircraft schedules, and training activities. Initiates actions to support flight management policies and procedures, and conducts aircrew interviews. Prepares and processes aeronautical orders and military pay orders.
2.2. Performs aircrew resource management functions. Monitors flight physicals, physiological training, aircrew qualifications, and other operations related programs. Schedules aircrew training and aircraft sorties, and maintains mission information and planning data. Prepares flight authorizations, and monitors individual flight requirements and unit flying hours.
2.3. Maintains control and accountability for AFORMS data. Advises on matters pertaining to aircrew resource management systems.
2.4. Inspects and evaluates production and maintenance of flight records, files, and reports. Evaluates completed work and group performance. Ensures functional directives are accurate and complete. Reviews operations resource management procedures and recommends changes.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: rated, nonrated, operational support, and parachutist duty classifications and flight management policies; aircrew continuation and qualification training and upgrade; flying hour management; and flying incentive pay.
3.2. Education. For entry into this specialty, completion of high school with courses in oral communications and computer operations is desirable.
3.3. Training. For award of AFSC 1C032, completion of the basic operations resource management course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1C052. Qualification in and possession of AFSC 1C032. Also, experience in functions such as scheduling aircrew training, and aircraft sorties, maintaining control and accountability of flight records, or squadron operations functions.
3.4.2. 1C072. Qualification in and possession of AFSC 1C052. Also, experience in performing or supervising functions such as aircrew scheduling, flight records maintenance, or maintaining the operations resource management system.
3.4.3. 1C092. Qualification in and possession of AFSC 1C072. Also, experience in preparing and interpreting operations resource management policies and directives.
3.5. Other:
3.5.1. Eligibility for a Secret security clearance according to AFI 31-501 is mandatory for award and retention of AFSCs 1C032/52/72/92/00.
3.5.2. Ability to speak distinctly is mandatory for entry, award, and retention of these AFSCs.

CEM Code 1C100
AFSC 1C191, Superintendent
AFSC 1C171, Craftsman
Journeyman AFSC 1C151
Apprentice AFSC 1C131
Helper AFSC 1C111

AIR TRAFFIC CONTROL

1. Specialty Summary. Controls en route and terminal air traffic by use of visual, radar, and non-radar means. Supervises and manages air traffic control (ATC) facilities. Related DoD Occupational Subgroup: 222.

2. Duties and Responsibilities. Controls and regulates en route and terminal air traffic. Initiates and issues ATC clearances, instructions, and advisories to ensure the safe, orderly, and expeditious flow of air traffic operating under instrument and visual flight rules. Plans, organizes, directs, inspects, and evaluates ATC activities.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: ATC principles and procedures; flight characteristics of aircraft; International Civil Aviation Organization and United States federal and military air directives; use of aeronautical charts, maps, and publications; interpretation, use, and limitations of ATC radar; use of ATC communications systems and navigational aids; and fundamentals of meteorology. United States Air Force certification as an ATC specialist satisfies these requirements. Not a part of the certification requirements, knowledge is also mandatory of principles of organization, purpose, operation, and management of ATC facilities.
3.2. Education. For entry into this specialty, completion of high school with courses in English is desirable.
3.3. Training. For award of AFSC 1C131, completion of an ATC operator course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1C151. Qualification in and possession of AFSC 1C131. Also, experience is mandatory performing functions involving actual control of aircraft.
3.4.2. 1C171. Qualification in and possession of AFSC 1C151. Also, experience is mandatory supervising or performing ATC functions.
3.4.3. 1C191. Qualification in and possession of AFSC 1C171. Also, experience is mandatory managing ATC functions.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry, award, and retention of these AFSCs, physical qualification for ATC operation according to AFI 48-123, *Medical Examination and Standards*.
3.5.2. For performance of ATC duties, possession of a Federal Aviation Administration ATC Specialist Certificate.
3.5.3. For award and retention of AFSCs 1C131/51/71/91/00, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

CEM Code 1C200
AFSC 1C291, Superintendent
AFSC 1C271, Craftsman

Journeyman AFSC 1C251
Apprentice AFSC 1C231
Helper AFSC 1C211

COMBAT CONTROL

1. Specialty Summary. Supervises and performs combat control operations in forward and rear operating locations. Uses visual and electronic aids to control airhead and visual flight rules air traffic. Establishes long-range command and control (C2) communications nets. Calculates and places demolition charges. Related DoD Occupational Subgroup: 250.

2. Duties and Responsibilities:
2.1. Plans, organizes, supervises, and establishes air traffic control (ATC) at forward airheads. Selects or assists in selecting sites, and marks assault zones (drop, landing, extraction, and recovery) with visual and electronic navigation aids for day and night, airland and airdrop operations. Operates portable and mobile communications equipment, and terminal and enroute air navigation aids required to control air traffic in forward areas. Evaluates and relays status of assault zones to inbound aircraft and higher headquarters. Provides limited weather observations, including surface and altitude wind data, temperature, and cloud heights. Controls vehicular traffic in the airport traffic area. Records weather and ATC data. Monitors status of air navigation aids.
2.2. Regulates enroute and airhead air traffic. Initiates, coordinates, and issues ATC clearances, holding instructions, and advisories to maintain aircraft separation and promote safe, orderly, and expeditious flow of traffic under visual or nonradar flight rules. Uses ground-to-air communications equipment and aural, visual, and electronic systems to control and expedite the movement of enroute, arriving, and departing air traffic. Prepares and issues advisories to pilots, ATC and other agencies concerning weather, notice-to-airmen information, air traffic flow control measures, and wake turbulence. Provides flight assistance and emergency service to air traffic. Directs actions in handling aircraft emergencies or mishaps and during combat control deployments to support contingency operations. Coordinates clearances, instructions, advisories, and air traffic movement with forward and rear area commanders.
2.3. Establishes and operates forward communications facilities. Supervises and establishes high-frequency, satellite, or other long-range C2 point-to-point communications links between forward and rear area commanders. Develops terminal instrument procedures for assault zones. Gathers current ground intelligence data in forward airhead area. Coordinates with medical personnel on casualty and patient staging points. Provides airlift operations support that cannot be provided by combat communications groups or other agencies.
2.4. Deploys into forward areas. Deploys into forward operating locations. Participates in special operations missions, combat search and rescue, and forward air guide duties. Uses demolitions to neutralize or remove munitions or obstacles affecting safe air traffic flow in the airhead area.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: ATC and combat control principles and procedures; aircraft flight characteristics; International Civil Aviation Organization, Federal Aviation Administration, and military air regulations; map, aeronautical chart, and publication use; characteristics and use of tactical and ATC communications systems and equipment, air navigation aids, and other operational equipment; meteorology principles; deployment procedures; joint service operation; infiltration techniques; movement and route selection; rappelling and roping operations; parachute procedures and equipment; jumpmaster training and small unit tactics; amphibious and scuba operations; and small arms and destructive demolition applications.
3.2. Education. For entry into this specialty, completion of high school is desirable.
3.3. Training. Completion of the following courses are mandatory for award of AFSC 1C231:
3.3.1. Combat Control Indoctrination Course
3.3.2. Airborne (Parachutist)
3.3.3. Scuba Diving
3.3.4. Combat Survival
3.3.5. Combat Control Operator (Air Traffic Control)
3.3.6. Military Freefall Parachutist
3.3.7. Combat Control School
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1C251. Qualification in and possession of AFSC 1C231. Also, experience in functions such as combat control duties involving actual air traffic deployment and control.

3.4.2. 1C271. Qualification in and possession of AFSC 1C251. Also, experience performing or supervising duties involving actual air traffic deployment and control, or combat control activities.
3.4.3. 1C291. Qualification in and possession of AFSC 1C271. Also, experience managing actual air traffic deployment and control, or combat control activities.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry, award, and retention of AFSCs 1C211/31/51/71/91, physical qualification for air traffic controller duty, marine diving duty, and parachute duty according to AFI 48-123, *Medical Examination and Standards*.
3.5.2. For award and retention of AFSCs 1C231/51/71/91/00, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.
3.5.3. For award and retention of AFSCs 1C231/51/71/91:
3.5.3.1. Qualification as a static line and military freefall parachutist and as a scuba diver.
3.5.3.2. Physical qualification and maintenance of personal physical standards according to Air Mobility Command (AMC) Regulations 51-16, *Combat Control Team Training*, and 60-4, *Combat Control Standardization and Evaluation Program*, and associated policy letters.

CEM Code 1C300
AFSC 1C391, Superintendent
AFSC 1C371, Craftsman
Journeyman AFSC 1C351
Apprentice AFSC 1C331
Helper AFSC 1C311

COMMAND AND CONTROL

1. Specialty Summary. Manages and performs command and control (C2) activities. Included are relaying C2 instructions; and recording, collecting, processing, and submitting manual and automated data products. Establishes data inputs for operational reports and status of resources and training system (SORTS) procedures. Uses available communications systems and consoles to effect positive control of assigned forces and weapons systems. Ensures compliance with C2 policies and procedures. Related DoD Occupational Subgroup: 250.

2. Duties and Responsibilities:
2.1. Manages and performs C2 activities. Ensures proper use and control of resources and classified material. Develops and conducts evaluation of command post processes for adherence to standards and to ensure operational readiness. Coordinates with other agencies and organizations during planning, executing, and evaluation phases of command post operations. Recommends actions to correct command post deficiencies. Performs C2 actions in the execution phase of Emergency War Orders, Emergency Plans, Operations Orders, and Operations Plans. Relays C2 instructions for launch, execution, diversion, recall, evacuation, recovery, recycle, and reconstitution of forces in response to emergency action directives. Ensures existing directives for executing and controlling assigned forces are understood and properly applied. Flight-follows aircraft and monitors mission status. Maintains current worldwide weather and forecasts for planned and in-progress operations.
2.2. Develops procedures for and maintains data bases to ensure operations reports and SORTS data efficiency, accuracy, and currency. Reports mission degree of success and disposition of forces. Monitors and coordinates data requirements to ensure accurate and expeditious handling of command post reports. Prepares and analyzes operational reports transmitted and received in the command post. Advises commander on required operational reports and reporting directives.
2.3. Establishes manpower, communications, and facility requirements for command post activities. Operates and monitors voice and data communications systems. Initiates, receives, and takes action pertaining to alert messages. Initiates emergency staff actions. Operates alerting systems, ground communication networks, and ground-to-air and point-to-point communications systems. Maintains checklists and initiates emergency actions taken in taken in case of suspected or actual sabotage; nuclear accidents; natural disasters; aircraft evacuation, dispersal, incidents, or accidents; and all other command interest items. Maintains operational graphs, charts, maps, and pictorial displays.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: Air Force organization and administration; C2 supporting data systems and reporting; automated data processing equipment use, capabilities, and limitations; techniques of presenting data; data collection procedures and summary techniques; purpose, procedures and summary techniques; purpose of command post for preparing, executing, and controlling assigned forces; emergency actions and directives; command weapon systems movement and transfer procedures; and encode, decode, and authorization procedures used by the command of assignment.
3.2. Education. For entry into this specialty, completion of high school is desirable.
3.3. Training. For award of the AFSC 1C331, completion of a basic C2 course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1C351. Qualification in and possession of AFSC 1C331. Also, experience in functions such as handling automated operational data, controlling input and output data into operational automated C2 system, handling data processing devices, data coding methods, and ground-to-air and point-to-point C2 communication operations.
3.4.2. 1C371. Qualification in and possession of AFSC 1C351. Also, experience performing or supervising functions of C2.
3.4.3. 1C391. Qualification in and possession of AFSC 1C371. Also, experience directing C2 functions.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For entry, award, and retention of these AFSCs:
3.5.2.1. Continued demonstration of mental and emotional stability.
3.5.2.2. Ability to speak distinctly.
3.5.3. For award and retention of AFSC 1C331/51/71/91/00, eligibility for a Top Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

CEM Code 1C400
AFSC 1C491, Superintendent
AFSC 1C471, Craftsman
Journeyman AFSC 1C451
Apprentice AFSC 1C431
Helper AFSC 1C411

TACTICAL AIR COMMAND AND CONTROL
(Changed 30 Apr 95)

1. Specialty Summary. Performs and manages tactical air control party (TACP) operations. Provides Air Force assistance and expertise in planning and controlling combat air resources. Operates and supervises communications nets to support army ground maneuver units. Related DoD Occupational Subgroup: 250.

2. Duties and Responsibilities:
2.1. Supervises and conducts mission planning and coordination of combat air resources. Recommends use of combat air resources to support mission requirements, tactics, air support assets, and ordnance capabilities and limitations. Extracts target information from maps. Plans and controls combat air support missions. Coordinates field artillery support.
2.2. Supervises and performs inter-service liaison activities to ensure effective integration of combat air resources on the battlefield. Provides Air Force expertise essential to joint combat operations. Assists with and coordinates air support requests. Plans, prepares, and conducts mission briefings. Assists with and develops fire support coordination plans.
2.3. Manages and operates global positioning systems, and voice and digital TACP combat communications weapons systems. Establishes and operates point-to-point communications nets. Processes and requests combat air resources to support Army ground maneuver units. Directs and employs field expedient antenna techniques.
2.4. Supervises and performs TACP field duties. Deploys to battlefield forward areas and supports Army maneuver units. Uses military maps to navigate to and operate within combat zones. Maintains proficiency with TACP weapons, field equipment, and signaling devices. Selects and supervises preparation of bivouac sites. Directs and applies camouflage and concealment techniques. Manages and conducts operator servicing of TACP vehicles, radios, and field and support equipment.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: Air Force theater air control system and Army air ground system; tactical air support weapons systems; covert and overt signaling and marking; combat intelligence collecting and reporting; individual and crew-served weapons; site selection and defense; Army military symbology, weapons, and equipment; artillery call-for-fire and adjustment procedures; Army combat maneuver unit missions, organization, and tasking; characteristics of mobile and portable communications systems, global positioning systems, and associated equipment; field expedient antennas; vehicle and foot movement techniques; Army and Air Force supply and mobility procedures; Army command and unit staff functions and tasking; interservice and host-tenant support agreements and procedures; TACP vehicle and support equipment operations, management, and operator servicing procedures; tactical air request, coordination, and control procedures; universal transverse mercator map and compass navigation; and geographical reference coordinate system.
3.2. Education. For entry into this specialty, completion of high school with courses in mathematics is desirable.
3.3. Training. For award of AFSC 1C431, completion of a basic tactical air command and control course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1C451. Qualification in and possession of AFSC 1C431. Also, experience in TACP operations.
3.4.2. 1C471. Qualification in and possession of AFSC 1C451. Also, experience in supervising tactical air command and control operations, personnel, and equipment.
3.4.3. 1C491. Qualification in and possession of AFSC 1C471. Also, experience in managing tactical air command and control activities.
3.5. Other. The following is mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision and depth perception as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For entry, award, and retention of AFSCs 1C411/31/51/71, qualification to operate government vehicles according to AFI 24-301, *Vehicle Operations*.
3.5.3. For entry, award, and retention of AFSCs 1C411/31/51/71/91/00, ability to speak English distinctly.
3.5.4. For award and retention of AFSCs 1C431/51/71/91/00, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

CEM Code 1C500
AFSC 1C591, Superintendent
AFSC 1C571*, Craftsman

Journeyman AFSC 1C551*
Apprentice AFSC 1C531*
Helper AFSC 1C511*

AEROSPACE CONTROL AND WARNING SYSTEMS
(Changed 30 Apr 96)

1. Specialty Summary. Manages and operates aerospace control and warning systems, including functions involving electronic countermeasures (ECM) and counter-countermeasures (ECCM), surveillance, data link management, identification, and weapons control. Provides radar control and monitoring of air weapons during offensive and defensive air operations. Makes decision in the conduct of air operations and in system equipment management. Related DoD Occupational Subgroup: 221.

2. Duties and Responsibilities:
2.1. Identifies, maintains surveillance, and assists in controlling aerospace objects. Operates aerospace control and warning systems equipment, and simulation equipment. Interprets and reacts to radarscope presentation and to generated console displays. Compares and reports track positions based on flight data or data base files. Assists in weapons control and performs surveillance, data link, identification, and data management functions in aerospace systems. Tears down, loads, unloads, and erects equipment and components. Performs as crew member of operational unit in functions of air weapons control. Responsible for safety of flight for air operations being controlled.
2.2. Gathers, displays, records, and distributes operational information. Coordinates with and exchanges air movement and identification information among air defense and air control, range control, and air traffic control agencies on matters pertaining to aircraft operations. Operates data link equipment and other automated data exchange devices to gather and relay operation information. Reports emergency signals, and ECM observations. Maintains logs, forms, and database files. Evaluates radar detection and performance. Maintains liaison with air defense artillery, and surface and naval fire units to ensure safe passage of friendly air traffic.
2.3. Performs ECCM functions. Maintains maximum radar sensitivity using ECCM techniques to eliminate degradation caused by electronic warfare (EW) activities or other influences. Monitors operation of radar inputs and counter-measure consoles, anti-jamming displays, and radar sensors to enhance radar presentations. Recommends procedures and techniques to improve effectiveness of ECM and ECCM activities.
2.4. Performs training, planning, standardization and evaluation, and other staff duty functions. Performs staff assistance visits to subordinate units. Test and evaluates capabilities of new equipment and propriety of new procedures.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: characteristics and limitations of aerospace surveillance and reporting systems; aircraft and weather detection and tracking; communication equipment capabilities and limitations; radar console and data link equipment presentations; receiving, recording and relaying system information; radar and radio capabilities and limitations; fixed and mobile command and control system characteristic; aircraft control procedures and techniques; aircraft performance characteristics and armament; and meteorology concerning air weapons control operations.
3.2. Education. For entry into this specialty, completion of high school or general educational development (GED) equivalency is mandatory. Also, completion of high school level courses in algebra and geometry is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 1C531X. Completion of a basis aerospace control and warning systems course.
3.3.2. 1C551D. Completion of undergraduate air weapons controller training.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1C551. Qualification in and possession of AFSC 1C531X. Also experience performing operational functions or aerospace control and warning systems activities; operations of data display and computer input equipment or radar indicator equipment; interpretation of computer generated displays and printouts or radar console presentations of environmental systems operational procedures and techniques.
3.4.2. 1C571. Qualification in and possession of AFSC 1C551. Also, experience performing or supervising functions such as aerospace surveillance and control systems, or ECM and ECCM activities.
3.4.3. 1C571D. Qualification in and possession of AFSC 1C551D. Also, experience performing or supervising radar control and monitoring of air weapons.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards.*
3.5.2. For award and retention of AFSCs 1C531X/51/71, 1C551D/71D, 1C591/00, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.
3.5.3. For entry into AFSC 1C551D, individual must possess AFSC 1C551.

3.5.4. For entry, award, and retention of AFSC 1C551D/71D, physical qualification for Weapons Controller duty according to AFI 48-123, *Medical Examination and Standards*.

4. * Specialty Shredouts

Suffix	*Portion of AFS to Which Related*
A	Manual Systems
B	Sector Operations Control Center
C	Theater Air Control System
D	Weapons Director

NOTE: Shredouts A, B, and C are applicable to the 1- and 3-skill levels only. Shredout D is applicable to the 5- and 7-skill level only.

CEM Code 1C600
AFSC 1C691, Superintendent
AFSC 1C671, Craftsman
Journeyman AFSC 1C651
Apprentice AFSC 1C631
Helper AFSC 1C611

SPACE SYSTEMS OPERATIONS

1. Specialty Summary. Manages or performs duties in space operations; space surveillance, missile warning, satellite command and control (C2), or space launch activities. Related DoD Occupational Subgroup: 221.

2. Duties and Responsibilities:
2.1. Detects, identifies, and maintains surveillance on low orbiting and deep space satellite vehicles using active and passive space surveillance systems. Explores new space surveillance technologies, develops new space operational procedures, and employs new space surveillance sensors.
2.2. Detects and tracks sea launched and intercontinental ballistic missiles using a variety of system peculiar sensors. Detects and tracks earth satellites. Forwards information to appropriate command and control agency.
2.3. Plans satellite contacts, resolves emergencies, and performs satellite commanding during launch, early orbit, daily operations, and end-of-life testing. Performs launch and on-orbit operations for military communications and Navstar Global Positioning System satellites. Provides on-orbit telemetry, tracking, and commanding for these and other satellite systems.
2.4. Provides space lift operations support to fulfill war fighting and national requirements. Assists inflight hardware processing and satellite launch operations for DoD, NASA, and commercial users.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: Satellite C2, space warning and control systems, and space launch processes; orbital mechanics; data analysis procedures; sensor theory; data transmission theory; principles of satellite and ground systems; receiving, recording, and relaying operational data; and administrative practices.
3.2. Education. For entry into this specialty, completion of high school with courses in physics, geometry, trigonometry, algebra, or computer science is desirable.
3.3. Training. For award of the AFSC 1C631, completion of a basic space systems operator course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1C651. Qualification in and possession of AFSC 1C631. Also, experience in functions such as spacelift C2 systems, telemetry processing, ground systems configuration, mission planning, anomaly resolution, and launch operations.
3.4.2. 1C671. Qualification in and possession of AFSC 1C651. Also, experience performing or supervising space systems operations functions and activities.
3.4.3. 1C691. Qualification in and possession of AFSC 1C671. Also, experience managing space systems operations activities.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry, award, and retention of AFSCs 1C611/31/51/71, physical qualification for space operations duty according to AFI 48-123, *Medical Examination and Standards*.
3.5.2. For award and retention of AFSCs 1C631/51/71/91/00, eligibility for a Secret security clearance accordance according to AFI 31-501, *Personnel Security Management Program*.

Attachment 7

INTELLIGENCE CAREER FIELD (1N)

Introduction

The Intelligence Career Field encompasses functions involved in collecting, producing, and distributing data that have strategic, tactical, or technical value from an intelligence viewpoint. This field includes functions necessary to maintain information security and language translation and interpretation.

Excluded from this career field are functions of collecting, collating, interpreting, and distributing general information of primary concern to other career fields. These functions are contained in the specific career field concerned.

INTELLIGENCE (1N)											
Input or Helper Level		**Apprentice or Semiskilled Level**		**Journeyman or Skilled Level**		**Craftsman or Advanced Level**		**Superintendent Level**		**Chief Enlisted Manager Level**	
1N011	Intel Applications	1N031	Intel Applications	1N051	Intel Applications	1N071	Intel Applications	1N091	Intel Applications	1N000	Intel Appl & Exploi-tation
1N111	Imagery Analysis	1N131	Imagery Analysis	1N151	Imagery Analysis	1N171	Imagery Analysis	1N191	Imagery Analysis		
1N211	Signals Intel Production	1N231	Signals Intel Production	1N251	Signals Intel Production	1N271	Signals Intel Production	1N291	Signals Intel Production	1N200	Signals Intel Analysis
1N311	Germanic Crypto Linguist	1N331	Germanic Crypto Linguist	1N351	Germanic Crypto Linguist	1N371	Germanic Crypto Linguist	1N390	Cryptologic Linguist		
A	German	A	German	A	German	A	German				
B	Dutch	B	Dutch	B	Dutch	B	Dutch				
C	Flemish	C	Flemish	C	Flemish	C	Flemish				
D	Swedish	D	Swedish	D	Swedish	D	Swedish				
E	Afrikaans	E	Afrikaans	E	Afrikaans	E	Afrikaans				
1N312	Romance Crypto Linguist	1N332	Romance Crypto Linguist	1N352	Romance Crypto Linguist	1N372	Romance Crypto Linguist				
A	Spanish (Latin American)	A	Spanish (Latin American)	A	Spanish (Latin American)	A	Spanish (Latin American)				
B	Portuguese (Latin American)	B	Portuguese (Latin American)	B	Portuguese (Latin American)	B	Portuguese (Latin American)				
C	French	C	French	C	French	C	French				
D	Italian	D	Italian	D	Italian	D	Italian				
E	Romanian	E	Romanian	E	Romanian	E	Romanian				
F	Haitian-Creole	F	Haitian-Creole	F	Haitian-Creole	F	Haitian-Creole				
G	Molodovan	G	Molodovan	G	Molodovan	G	Molodovan				
1N313	Slavic Crypto Linguist	1N333	Slavic Crypto Linguist	1N353	Slavic Crypto Linguist	1N373	Slavic Crypto Linguist				
A	Russian	A	Russian	A	Russian	A	Russian				
B	Polish	B	Polish	B	Polish	B	Polish				
C	Czech	C	Czech	C	Czech	C	Czech				
D	Serbo-Croat	D	Serbo-Croat	D	Serbo-Croat	D	Serbo-Croat				
E	Russian(White)	E	Russian(White)	E	Russian(White)	E	Russian(White)				
F	Hungarian	F	Hungarian	F	Hungarian	F	Hungarian				
G	Lithuanian	G	Lithuanian	G	Lithuanian	G	Lithuanian				
H	Slovenian	H	Slovenian	H	Slovenian	H	Slovenian				
J	Bulgarian	J	Bulgarian	J	Bulgarian	J	Bulgarian				
K	Ukrainian	K	Ukrainian	K	Ukrainian	K	Ukrainian				
L	Macedonian	L	Macedonian	L	Macedonian	L	Macedonian				
★M	Albanian	★M	Albanian	★M	Albanian	★M	Albanian				

INTELLIGENCE (1N)

Continued

Input or Helper Level		Apprentice or Semiskilled Level		Journeyman or Skilled Level		Craftsman or Advanced Level		Superintendent Level		Chief Enlisted Manager Level	
1N314	Far East Crypto Linguist	1N334	Far East Crypto Linguist	1N354	Far East Crypto Linguist	1N374	Far East Crypto Linguist	1N390	Cryptologic Linguist	1N200	Signals Intel Analysis
A	Chinese (Mandarin)	A	Chinese (Mandarin)	A	Chinese (Mandarin)	A	Chinese (Mandarin)				
B	Vietnamese	B	Vietnamese	B	Vietnamese	B	Vietnamese				
C	Thai	C	Thai	C	Thai	C	Thai				
D	Cambodian	D	Cambodian	D	Cambodian	D	Cambodian				
E	Lao	E	Lao	E	Lao	E	Lao				
F	Japanese	F	Japanese	F	Japanese	F	Japanese				
G	Korean	G	Korean	G	Korean	G	Korean				
H	Chinese (Cantonese)	H	Chinese (Cantonese)	H	Chinese (Cantonese)	H	Chinese (Cantonese)				
J	Tagalog	J	Tagalog	J	Tagalog	J	Tagalog				
1N315	Mid East Crypto Linguist	1N335	Mid East Crypto Linguist	1N355	Mid East Crypto Linguist	1N375	Mid East Crypto Linguist				
A	Arabic	A	Arabic	A	Arabic	A	Arabic				
B	Arabic (Syrian)	B	Arabic (Syrian)	B	Arabic (Syrian)	B	Arabic (Syrian)				
C	Hebrew	C	Hebrew	C	Hebrew	C	Hebrew				
D	Persian	D	Persian	D	Persian	D	Persian				
E	Turkish	E	Turkish	E	Turkish	E	Turkish				
F	Greek	F	Greek	F	Greek	F	Greek				
G	Indonesian	G	Indonesian	G	Indonesian	G	Indonesian				
H	Hindi-Urdu	H	Hindi-Urdu	H	Hindi-Urdu	H	Hindi-Urdu				
J	Armenian	J	Armenian	J	Armenian	J	Armenian				
K	Azeri	K	Azeri	K	Azeri	K	Azeri				
L	Pushtu	L	Pushtu	L	Pushtu	L	Pushtu				
M	Georgian	M	Georgian	M	Georgian	M	Georgian				
N	Tadzhik	N	Tadzhik	N	Tadzhik	N	Tadzhik				
P	Kazakh	P	Kazakh	P	Kazakh	P	Kazakh				
Q	Turkmen	Q	Turkmen	Q	Turkmen	Q	Turkmen				
R	Uzbek	R	Uzbek	R	Uzbek	R	Uzbek				
1N411	Signals Intel Analysis	1N431	Signals Intel Analysis	1N451	Signals Intel Analysis	1N471	Signals Intel Analysis	1N491	Signals Intel Analysis	1N200	Signals Intel Analysis
1N511	Electronic Sig Intel Exploit	1N531	Electronic Sig Intel Exploit	1N551	Electronic Sig Intel Exploit	1N571	Electronic Sig Intel Exploit	1N591	Electronic Sig Intel Exploit	1N500	Electronic Sig Intel Exploit
1N611	Electronic Sys Security Assess	1N631	Electronic Sys Security Assess	1N651	Electronic Sys Security Assess	1N671	Electronic Sys Security Assess	1N691	Electronic Sys Security Assess	1N600	Electronic Sys Security Assess

CEM Code 1N000 **Journeyman AFSC 1N051**
AFSC 1N091, Superintendent **Apprentice AFSC 1N031**
AFSC 1N071, Craftsman **Helper AFSC 1N011**

INTELLIGENCE APPLICATIONS
(Changed 30 Apr 96)

1. Specialty Summary. Performs and manages intelligence activities and functions including developing, evaluating, and providing intelligence information. Related DoD Occupational Subgroup: 243.

2. Duties and Responsibilities:
2.1. Conducts intelligence training. Instructs aircrews on collecting and reporting requirements and procedures; matters such as evasion, recovery, and code of conduct; recognition techniques; and assessing offensive and defensive weapon system capabilities. Prepares mission reports. Conducts intelligence debriefings of US and allied military personnel involved in combat operations.
2.2. Prepares, maintains, and presents intelligence displays, reports, and briefings. Produces all-source intelligence, situation estimates, order-of-battle studies, and other intelligence reports and studies.
2.3. Performs geo-locational mensuration functions. Maintains and uses geospatial databases, target materials, imagery, and other intelligence products. Extracts coordinates and positional relationships from digital database systems and non-automated stereo-photographic models. Identifies and establishes unit requirements for intelligence reference materials. Maintains intelligence reference files, automated intelligence databases, and target materials datalogs. Prepares target materials. Performs targeting, weaponeering, and damage assessment functions. Uses automated and non-automated systems applications.
2.4. Develops mission planning and execution support materials. Assembles maps, charts, and target materials. Prepares strip charts and annotates navigational information. Collates intelligence and operations materials, and assembles final product for mission briefing, study, and use.
2.5. Constructs radar predictions. Determines source materials and areas for prediction. Assembles, produces, evaluates, and updates radar prediction materials based on analysis of structures, terrain, and multi-spectral imagery.
2.6. Compiles, segregates, evaluates, researches, interprets, analyzes, and disseminates intelligence information. Analyzes intelligence to support operations and targeting. Uses intelligence automated data systems to store, retrieve, display, and report intelligence information. Establishes intelligence collection requirements.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: intelligence organizations and systems; collection and reporting systems, procedures, and methods; intelligence information sources; techniques of identifying, collating, evaluating, and analyzing information; geographical and cultural aspects of foreign countries; military capabilities of potential enemy offensive and defensive weapon systems; special operations; procedures for acquiring, updating, and maintaining intelligence documents, maps, and charts; map and chart use techniques; graphic, oral, and written intelligence information presentation; target planning and materials; target folder construction techniques; capabilities and application of automated data handling and management systems; security classification marking and control; US sensor systems, regional physical characteristics relative to radar significance; methods of verifying target intelligence information derived from imagery; basic electromagnetic theory; computerized systems supporting target intelligence and mission planning systems; digital terrain and feature data based; and principles of precise positioning systems and targeting and weaponeering.
3.2. Education. For entry into this specialty, completion of high school or General Educational Development equivalency, with courses in speech, journalism, geography, modern world history, statistics, algebra, geometry, and trigonometry is desirable.
3.3. Training. For award of AFSC 1N031, completion of a basic intelligence applications course is mandatory.
3.4. Experience. The following experience is mandatory for award of AFSC indicated:
3.4.1. 1N051. Qualification in and possession of AFSC 1N031. Also, experience in functions such as preparing intelligence reports and correspondence; computing and plotting information from maps and charts; developing and maintaining target materials; or collating and evaluating intelligence information.
3.4.2. 1N071. Qualification in and possession of AFSC 1N051. Also, experience performing functions such as preparing mission folders and participating in mission planning.
3.4.3. 1N091. Qualification in and possession of AFSC 1N071. Also, experience managing activities within the intelligence process; preparing and providing intelligence support to operations, exercises, or simulations; or producing analytical studies.

3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined by AFI 48-123, *Medical Examination and Standards*.
3.5.2. For award and retention of AFSC 1N031/51/71/91/00, eligibility for a Top Secret security clearance according to AFI 31-501, *Personnel Security Management Program*, and for sensitive compartmented information access.

CEM Code 1N000
AFSC 1N191, Superintendent
AFSC 1N171, Craftsman
Journeyman AFSC 1N151
Apprentice AFSC 1N131
Helper AFSC 1N111

IMAGERY ANALYSIS
(Changed 30 Apr 96)

1. Specialty Summary. Manages, supervises, and performs intelligence activities and functions including exploitation, development, and dissemination of multisensor imagery products to support warfighting operations and other activities. Related DoD Occupational Subgroup: 242.

2. Duties and Responsibilities:
2.1. Exploits and analyzes multisensor imagery in conjunction with all-source intelligence information. Determines type, function, location, and significance of military facilities and activities, industrial installations; and surface transportation networks. Determines type, function, and location of military equipment including gournd, air, naval, missile, and electronic orders of battle. Uses multisensor imagery to conduct comparative analysis. Analyzes terrain to determine trafficability, and identify landing zones and defensive fortifications. Analyzes structures of military and industrial installations to determine construction type and functionality. Determines present and future imagery collection requirements. Prepares damage assessment reports detailing structural damage and weapons effects.
2.2. Operates imagery exploitating equipment including computer-assisted exploiting and automated data base systems. Constructs queries and retrieves historical files to conduct comparative analysis. Uses automated exploiting equipment to prepare, review, and transmit intelligence reports. Uses softcopy imagery systems to exploit, perform mensuration, annotate, and disseminate imagery products.
2.3. Performs precise mensuration of multisensor imagery to determine geographic location, and vertical and horizontal measurements of objects. Uses maps, charts, geodetic products, and multisensor imagery to determine distance, azimuth, and location of targets.
2.4. Compiles imagery derived data into detailed target assessments. Uses collateral information from other intelligence disciplines to analyze imagery. Prepares multisensor imagery for reproduction and dissemination. Prepares and conducts multisensor imagery derived intelligence briefings. Constructs and prepares imagery mosaics for reproduction. Compiles and maintains imagery target folders.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: basic and advanced imagery interpretation principles, techniques, and procedures for imagery exploitation, reports, and presentations; Air Force, DOD, and national imagery intelligence collection systems and procedures; techniques of collating, analyzing, and evaluating imagery intelligence; use of maps, charts, grid systems, and interpreting equipment to solve imagery intelligence problems; mosaic construction; intelligence reference materials; fundamental mensuration techniques; distribution of imagery intelligence; requirements for, and sources and uses of target and imagery intelligence data; production of imagery related target materials; and security controls, classifications, markings, and handling restrictions.
3.2. Education. Completion of high school with courses in mathematics, advanced English, and computer applications is desirable for entry into this specialty.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. AFSC 1N131. Completion of a basic imagery analysis course.
3.3.2. AFSC 1N171. Completion of the advanced imagery analysis course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1N151. Qualification in and possession of AFSC 1N131. Also, experience performing functions such as imagery exploitation, mensuration, map and chart reading, reporting, and mosaic construction.
3.4.2. 1N171. Qualification in and possession of AFSC 1N151. Also, experience performing or supervising functions such as imagery exploitation.
3.4.3. 1N191. Qualification in and possession of AFSC 1N171. Also, experience managing, collecting, interpreting, analyzing, and distributing imagery and imagery related intelligence.

3.5. Other. The following is mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For entry, award, and retention of these AFSCs, stereoscopic acuity equivalent to depth perception standards for flying Class I or Class IA with or without correction according to AFI 48-123.
3.5.3. For award and retention of AFSC 1N131/51/71/91/00, eligibility for a Top Secret security clearance according to AFI 31-501, *Personnel Security Management Program* and for sensitive compartmented information access.
3.5.4. For award of AFSC 1N131 ability to type at a rate of 20 words per minute.

CEM Code 1N200
AFSC 1N291, Superintendent
AFSC 1N271, Craftsman
Journeyman AFSC 1N251
Apprentice AFSC 1N231
Helper AFSC 1N211

SIGNALS INTELLIGENCE PRODUCTION
(Changed 31 Oct 95)

1. Specialty Summary. Acquires, identifies, processes, analyzes, and reports on electromagnetic emissions. Operates systems and equipment for signals intelligence production. Related DOD Occupational Subgroup: 231.

2. Duties and Responsibilities:
2.1. Acquires signals. Selects antennae. Operates and tunes receivers for clearest reception of signal. Patches and monitors demodulators, recorders, printers, spectrum analyzers, computers, and associated equipment to process signals. Records and transcribes signals for further identification, analysis, processing, and reporting. Uses computer terminals for data entry, query, data restructuring, and signals development.
2.2. Studies, analyzes, and identifies electromagnetic emissions. Uses graphic reproductions to determine operational characteristics.
2.3. Processes signals. Extracts electromagnetic emissions from real-time and recorded media, and performs technical and data analysis. Prepares and forwards tapes of selected transmissions.
2.4. Interprets and renders preliminary analysis. Uses analytical aids and related reference material to help identify signals and detect abnormalities. Maintains databases of various signal types and activities using computer and hardcopy products. Notifies appropriate personnel and workcenters of unusual activities or critical situations. Identifies, analyzes, and implements tasking.
2.5. Generates reports. Annotates and forwards operational characteristics of selected transmissions or reportable information. Evaluates records, operator logs, formats, technical reports, and data from other activities.
2.6. Performs preventative maintenance. Ensures all equipment and resources are externally clean, functional, and free from safety hazard. Reports malfunctions and observations.
2.7. Develops, manages, reviews, and evaluates intelligence production processes. Implements process improvements.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: role and purpose of cryptologic support operations provided to commanders, service cryptologic elements, and national agencies; joint service relationships and operational concepts; tasking strategies; communications networks, radio wave propagation and theories, and modulation techniques; radio communications procedures; basic signals analysis and identification; functions and operations of electronic equipment; reporting formats and procedures; basic computer operations and directives for handling, distributing, and protecting defense information; cryptologic systems operations; Morse or non-Morse communications equipment and techniques; mission management responsibilities; and related cryptologic activities.
3.2. Education. For entry into this specialty, completion of high school or General Educational Development equivalency with courses in algebra, typing, and computers is desirable.
3.3. Training. For award of AFSC 1N231, completion of a basic signals intelligence production course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1N251. Qualification in and possession of AFSC 1N231. Also, experience performing functions such as selecting antennae, operating and tuning receivers, transcribing signals, signal identification, or using graphic reproductions.
3.4.2. 1N271. Qualification in and possession of AFSC 1N251. Also, experience in operations or supervisory functions related to electromagnetic emissions positions.
3.4.3. 1N291. Qualification in and possession of AFSC 1N271. Also, experience managing signals intelligence production functions or activities.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, no record or history of temporomandibular joint pain or disorder.
3.5.2. For award and retention of AFSCs 1N231/51/71/91, eligibility for a Top Secret security clearance according to AFI 31-501, *Personnel Security Management Program*, ,and for sensitive compartmented information access.
3.5.3. For award of AFSC 1N231:
3.5.3.1. Ability to type at a rate of 25 words per minute.
3.5.3.2. Ability to receive and transcribe international Morse code at a rate of 20 groups per minute.

CEM Code 1N200 **Superintendent AFSC 1N390**

CRYPTOLOGIC LINGUIST
(Changed 31 Oct 94)

1. Specialty Summary. Superintends ground and airborne cryptologic linguist activities. Related DoD Occupational Subgroup: 232.

2. Duties and Responsibilities:
2.1. Plans and organizes cryptologic linguist activities. Designs and develops organizational charts to show lines of authority and placement of responsibilities for performance of functions. Develops production controls and standards. Improves procedures and work methods to ensure maximum personnel use and operation economy. Estimates requirements for space, equipment, supplies, and facilities.
2.2. Directs cryptologic linguist activities. Controls workflow, assigns projects to subordinates, and establishes work priorities. Ensures compliance with directives and policies. Supervises records and files maintenance. Realigns priorities to meet changing mission requirements. Plans and conducts briefings, conferences, and classroom instruction in vocabulary, military nomenclature, and voice techniques. Manages cryptologic linguist activities for certain languages aboard aircraft.
2.3. Inspects and evaluates cryptologic linguists activities. Inspects operations to eliminate duplication of effort, ensure full coordination of related activities, and obtain maximum use of all available information. Interprets inspection findings and recommends corrective action. Recommends new processing methods and procedures.
2.4. Performs technical cryptologic linguist functions. Resolves technical problems. Advises on status and adequacy of equipment, supplies, personnel training, operating efficiency, and unit capabilities. Provides technical advice and assistance to agencies using language services. Translates written material from one language to another. Interprets statements and conversations expressed in English or foreign language. Performs difficult phases of voice processing. Evaluates information.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: a designated language; directives for handling, distributing, and safeguarding military information; procedures for processing and distributing intelligence data; radio communications operations theory; and organization of designated military forces.
3.2. Education. Not used.
3.3. Training. Not used.
3.4. Experience. For award and retention of AFSC 1N390, qualification in and possession of AFSC 1N371X/72X/73X/74X or 75X is mandatory. Also, experience is mandatory directing cryptologic activities.
3.5. Other. For award and retention of this AFSC, eligibility for a Top Secret security clearance according to AFI 31-501, *Personnel Security Management Program,* and for sensitive compartmented information access is mandatory.

AFSC 1N37X*, Craftsman **Apprentice AFSC 1N33X ***
AFSC 1N35X*, Journeyman **Helper AFSC 1N31X ***

CRYPTOLOGIC LINGUIST
(Changed 31 Oct 98)

1. Specialty Summary. Performs and supervises recording, transcribing, translating, analyzing, and reporting of assigned voice communications. Related DoD Occupational Subgroup: 232.

2. Duties and Responsibilities:
2.1. Operates and manages operation of communications equipment. Operates radio receivers, recording equipment, typewriters, keyboards, computer consoles, and related equipment. Tunes receivers to prescribed frequencies or performs frequency search missions, or both, over specified portions of radio spectrums to locate and monitor stations and frequency use. Monitors and records communications, adding appropriate comments to assist in transcription and analysis. Performs preventive maintenance on mission equipment.
2.2. Transcribes and processes communications. Transcribes, translates, analyzes, and reports on assigned communications. Translates spoken or written material from one language to another. Uses wording aids, and references. Recognizes essential elements of information for reporting activity. Assists analysts in identifying, analyzing, and reporting activities.
2.3. Maintains technical aids, logs, and records. Compiles and maintains operation records and statistics. Ensures logs, forms, and correspondence are properly completed, annotated, and distributed. Monitors and maintains handbooks, working aids, and analytical references to ensure applicability and currency. Reviews, updates, and compiles data for operational use.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: a designated language; radio communications operations theory; communications techniques; operation of acquisition, recording, and processing equipment; communications networks; formats, terminology, and theory of traffic analysis; organization of designated military forces; procedures for processing and distributing intelligence data; and methods for handling, distributing, and safeguarding military information.
3.2. Education. For entry into this specialty, completion of high school with courses in foreign languages is desirable.
3.3. Training. For award of AFSC 1N33XX, completion of a designated basic foreign language course or demonstrated proficiency and a cryptologic course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1N35XX. Qualification in and possession of AFSC 1N33XX. Also, experience performing cryptologic activities.
3.4.2. 1N37XX. Qualification in and possession of AFSC 1N35XX. Also, experience performing or supervising cryptologic activities.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty:
3.5.1.1. No record or history of temporomandibular joint disorder or pain.
3.5.1.2. A minimum score of 95 for language difficulty categories I, II, and III and a minimum score of 100 for language difficulty category IV on the Defense Language Aptitude Battery; or demonstrated proficiency in a designated language.
3.5.2. For award and retention of AFSC 1N33XX:
3.5.2.1. Ability to aurally comprehend, read, and write a designated language with practical fluency.
3.5.2.2. Ability to type at a rate of 25 words per minute.
3.5.3. For award and retention AFSC 1N33XX, 1N35XX or 1N37XX, eligibility for a Top Secret security clearance according to AFI 31-501, *Personnel Security Management Program,* and for sensitive compartmented information access

★4. Specialty Shredouts:

Suffix *Portion of AFSC to Which Related*

AFSC 1N3X1 - Germanic Cryptologic Linguist

A..... German
B..... Dutch
C..... Flemish
D ..... Swedish
E..... Afrikaans

AFSC 1N3X2 - Romance Cryptologic Linguist

A..... Spanish (Latin American)
B..... Portuguese (Latin American)
C..... French
D ..... Italian
E..... Romanian
F ..... Haitian - Creole
G ..... Molodovan

AFSC 1N3X3 - Slavic Cryptologic Linguist

A..... Russian
B..... Polish
C..... Czech
D ..... Serbo-Croatian
E..... Russian (White)
F ..... Hungarian
G ..... Lithuanian
H ..... Slovenian
J..... Bulgarian
K ..... Ukranian
L..... Macedonian
★M..... Albanian

AFSC 1N3X4 - Far East Cryptologic Linguist

A..... Chinese (Mandarin)
B..... Vietnamese
C..... Thai
D ..... Cambodian
E..... Lao
F ..... Japanese
G ..... Korean
H ..... Chinese (Cantonese)
J..... Tagalog

AFSC 1N3X5 - Mid East Cryptologic Linguist

A..... Arabic
B..... Arabic (Syrian)
C..... Hebrew
D ..... Persian
E..... Turkish
F ..... Greek
G ..... Indonesian
H ..... Hindi-Urdu
J..... Armenian
K ..... Azeri
L..... Pushtu
M..... Georgian
N ..... Tadzhik
P ..... Kazakh
Q ..... Turkmen
R..... Uzbek

CEM Code 1N200
AFSC 1N491, Superintendent
AFSC 1N471, Craftsman
Journeyman AFSC 1N451
Apprentice AFSC 1N431
Helper AFSC 1N411

SIGNALS INTELLIGENCE ANALYSIS
(Changed 31 Oct 95)

1. Specialty Summary. Analyzes signals communications to recognize, extract, verify, and process and disseminate intelligence. Manages signals intelligence analysis activities. Related DoD Occupational Subgroup: 232.

2. Duties and Responsibilities:
2.1. Processes signals intelligence information. Compiles, records, and analyzes intelligence data. Diagrams communications network structures and studies operating characteristics. Receives, records, and correlates data to perform preliminary analysis. Recovers, converts, and displays geographic data.
2.2. Performs detailed analysis. Identifies and analyzes data for reportable significance. Determines network structure and communications systems characteristics. Analyzes, compares, and studies unique data. Prepares in-depth studies on communications stations. Reconstructs signals networks. Determines signals schedules, and procedural characteristics, and draws net diagrams in schematic or geographical design. Uses established methods and special techniques to identify communications stations. Compares and categorizes messages by analyzing signals' internal, external, and other textual features. Conducts research and analysis to develop case files. Provides analytical support to customers.
2.3. Prepares and directs preparation of analytical reports. Compiles and correlates information. Prepares analytical reports reflecting communications patterns, trends, network diagrams, and circuit characteristics. Identifies potential sources of additional information. Operates various computer systems.
2.4. Develops analytical procedures. Improves analytical methods and procedures to meet changing requirements and ensure maximum operational economy.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: theory of radio communications procedures; analytical techniques; organization of the national intelligence structure; organization of designated military forces; geography; reporting principles and procedures; effective writing principles; and directives for handling, disseminating, and safeguarding classified defense information.
3.2. Education. Completion of high school with courses in mathematics, English composition, and computer applications is desirable for entry into this specialty.
3.3. Training. Completion of a basic signals intelligence analysis course is mandatory for award of AFSC 1N431.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1N451. Qualification in and possession of AFSC 1N431. Also, experience in functions such as analyzing communications signals or preparing technical reports.
3.4.2. 1N471. Qualification in and possession of AFSC 1N451. Also, experience performing or supervising functions such as analyzing communications traffic, developing signals network diagrams, or preparing intelligence reports.
3.4.3. 1N491. Qualification in and possession of AFSC 1N471. Also, experience supervising signals intelligence analysis and reporting efforts; and developing analytical procedures for exploitation of signals intelligence data.
3.5. Other. The following are mandatory as indicated:
3.5.1. For award and retention of AFSCs 1N431/51/71/91, eligibility for a Top Secret security clearance according to AFI 31-501, *Personnel Security Management Program,* and for sensitive compartmented information access.
3.5.2. For award of AFSC 1N431, ability to operate a keyboard at a rate of 25 words per minute (WPM).
3.5.3. For award of AFSC 1N451, ability to operate a keyboard at a rate of 30 WPM.

CEM Code 1N500
AFSC 1N591, Superintendent
AFSC 1N571, Craftsman
Journeyman AFSC 1N551
Apprentice AFSC 1N531
Helper AFSC 1N511

ELECTRONIC SIGNALS INTELLIGENCE EXPLOITATION
(Changed 31 Oct 94)

1. Specialty Summary. Performs and manages electronic signals intelligence exploitation activities and functions. Operates electronic monitoring, analysis, and related equipment. Analyzes, processes, and derives intelligence from electromagnetic transmissions. Related DoD Occupational Subgroup: 556.

2. Duties and Responsibilities:
2.1. Supports signals intelligence (SIGINT) activities and operations. Performs operator and analyst duties to support electronic intelligence (ELINT) and foreign instrumentation signals intelligence (FISINT) activities. Conducts signals exploitation activities to support electronic combat (EC) operations.
2.2. Operates electronic search, monitoring, and related equipment. Searches and monitors assigned portions of the radio frequency spectrum. Reports significant signals. Operates directional, electromagnetic receiving, and recording systems to monitor, acquire, collect, and exploit electromagnetic transmissions.
2.3. Performs and oversees signals collection and analysis functions. Determines electromagnetic transmission characteristics. Determines line of bearing or origin point, external characteristics, and parameters of electromagnetic transmissions. Uses signals analysis and data processing equipment. Extracts data from electromagnetic signals and reports results. Evaluates electromagnetic transmission exploitation to ensure characteristics are accurately determined and reported.
2.4. Develops and maintains automated data bases and operational logs. Records equipment status, signals characteristics, and analytical findings.
2.5. Prepares and evaluates reports. Assembles operational and technical information. Performs quality control. Inspects and evaluates ELINT, FISINT, and EC support activities. Validates findings with operations and analysis personnel. Initiates or recommends corrective actions. Prepares reports. Reviews inspection reports submitted by other activities.
2.6. Plans, organizes, and directs electromagnetic signals exploitation activities. Manages allotted resources for ELINT, FISINT, and EC operations and analysis activities. Identifies responsibilities for monitoring operations, intelligence analysis, and data reduction functions. Plans operations and analysis functions and devises techniques to improve operations.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: intelligence operations; data reduction and processing; reporting; electronic principles applicable to signals collection and analysis; and missions and functions of ELINT, FISINT, and EC operations.
3.2. Education. Completion of high school with courses in basic electronics, physics, algebra, and trigonometry is desirable for entry into this specialty.
3.3. Training. Completion of a basic electronic signals intelligence exploitation course is mandatory for award of AFSC 1N531.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1N551. Qualification in and possession of AFSC 1N531. Also, experience performing functions such as collecting, interpreting, analyzing, and reporting electromagnetic transmissions.
3.4.2. 1N571. Qualification in and possession of AFSC 1N551. Also, experience performing or supervising functions such as collecting, interpreting, analyzing, and reporting electromagnetic transmissions.
3.4.3. 1N591. Qualification in and possession of AFSC 1N571. Also, experience directing functions such as intelligence operations.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, no record or history of temporomandibular joint pain or disorder.
3.5.2. For award and retention of AFSCs IN531/51/71/91/00, eligibility for a Top Secret security clearance according to AFI 31-501, *Personnel Security Management Program,* and for sensitive compartmented information access.

CEM Code 1N600
AFSC 1N691, Superintendent
AFSC 1N671, Craftsman
Journeyman AFSC 1N651
Apprentice AFSC 1N631
Helper AFSC 1N611

ELECTRONIC SYSTEM SECURITY ASSESSMENT

1. Specialty Summary. Performs electronic system security assessment (ESSA) operations, including collection, analysis, and processing of friendly command, control, and communications (C3) electronic emissions. Applies intelligence processes and functions to determine hostile intelligence threat to friendly communications. Supervises ESSA operations, including basic and intermediate C3 collection and processing, and RED FORCE jamming and deception. Related DoD Occupational Subgroup: 233.

2. Duties and Responsibilities:
2.1. Collects, processes, and analyzes friendly C3 electronic emissions. Applies communications security (COMSEC) assessment techniques to collected and processed data, identifying deficiencies and weaknesses. Receives, records, and correlates collected C3 data on which preliminary processing and analysis has been performed. Evaluates results of ESSA activities in terms of accuracy, relative mission priority, and bearing on overall C3 patterns or trends.
2.2. Determines C3 networks and communications systems characteristics and equipment used. Prepares studies on specific C3 nodes. Identifies specific locations using maps to read, plot, and identify. Identifies and documents complex C3 systems characteristics. Interprets new requirements and makes mission changes. Processes, compares, and conducts detailed studies of unique data.
2.3. Compiles and maintains databases. Establishes database requirements and maintains data on military and related operations, supporting C3, vulnerability, and threat information. Applies data automation to ESSA mission procedures and products to improve operational capabilities.
2.4. Prepares reports. Assembles information and prepares COMSEC assessment and RED FORCE reports. Prepares reports reflecting C3 weaknesses and trends, and recommends measures to counter or protect C3 systems weaknesses. Prepares and distributes reports on hostile intelligence threats, communications vulnerability, and C3 nodes criticality; prepares and presents briefing on same. Evaluates finished reports and provides assistance to formulate effective corrective actions to problem areas.
2.5. Develops and executes plans and concepts for participating in COMSEC assessment and RED FORCE operations. Develops new collection, processing, and analysis procedures. Devises procedures and systems to meet changing C3 requirements. Prepares specifications for assessment of designated C3 nodes. Develops procedures to compile, correlate, evaluate, and report C3 data. Develops procedures and techniques to conduct jamming and deception activities. Formulates rules of engagement (ROE) concepts, procedures, and techniques to employ simulated radio electronic combat (REC) and radio electronic warfare service (REWS) (jamming and deception) against friendly forces in a training environment. Evaluates plans and concepts developed for planner or executor participation in COMSEC assessment and RED FORCE operations.
2.6. Conducts RED FORCE jamming and deception operations. Operates fixed, deployable, and airborne collection, jamming, and data processing equipment. Conducts jamming and deception operations during simulated hostile radio electronic combat against friendly forces in exercise and training environments. Supervises jamming and deception operations.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: essential elements of friendly information; capabilities of tactical, strategic, and support C3 systems of friendly forces; C3 equipment and nodes; methods by which C3 is exercised over Air Force and friendly forces; friendly C3 terminology, systems, and employment; COMSEC directives and monitoring equipment; intelligence processes and functions; analysis techniques that can be applied to friendly C3; electronic emission systems; friendly forces' code authentication and call sign systems; jamming, deception, and exploitation techniques; ROE and flight safety in a training or exercise environment; hostile radio electronic combat and warfare services; procedures for handling, distributing, and safeguarding classified defense information; map reading and plotting; geography; database information analysis and correlation processes; friendly and hostile intelligence organizations, systems, and capabilities; conduct of friendly communications vulnerability and criticality assessments; preparation of hostile intelligence threat studies; developing, evaluating, and applying protective or counter C3 procedures against hostile attack; objectives of REC doctrine; application of DoD and United States Air Force (USAF) directives to COMSEC assessment and RED FORCE missions or operations, and USAF or friendly forces classification guides; and techniques for evaluating effectiveness of friendly codes, call signs, and encryption systems as well as the means by which they can be improved.
3.2. Education. For entry into this specialty, completion of high school is desirable.

3.3. Training. For award of AFSC 1N631, completion of the basic electronic system security assessment course is mandatory.

3.4. Experience. The following experience is mandatory for award of the AFSC indicated:

3.4.1. 1N651. Qualification in and possession of AFSC 1N631. Also, experience collecting and processing information such as electronic emissions, and understanding communications systems and equipment.

3.4.2. 1N671. Qualification in and possession of AFSC 1N651. Also, experience performing or supervising functions such as evaluating and analyzing electronic emissions and distributing mission reports; preparing and presenting COMSEC assessment and RED FORCE mission and threat briefings; identifying resource requirements; and conducting COMSEC assessment and RED FORCE missions.

3.4.3. 1N691. Qualification in and possession of AFSC 1N671. Also, experience managing electronic system security assessment functions and activities.

3.5. Other. The following are mandatory as indicated:

3.5.1. For award of AFSC 1N631, ability to operate a keyboard at 20 words per minute (wpm).

3.5.2. For award and retention of AFSCs 1N631/51/71/91/00, eligibility for a Top Secret security clearance according to AFI 31-501, *Personnel Security Management Program,* and for access to sensitive compartmented information.

3.5.3. For award of AFSC 1N651, ability to operate a keyboard at 30 WPM.

Attachment 8

SAFETY CAREER FIELD (1S)

INTRODUCTION

The Safety Career Field encompasses functions relating to safety education and engineering; contractor and construction safety; mishap investigation, and analysis and trends computations; operations and facilities evaluation, inspection, and survey; risk assessment; consultation with commanders, functional managers, supervisors, and employees; and safety education and awareness promotion at all levels. The following is a complete listing of AFSCs for the Safety Career Field.

SAFETY (1S)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
1S011 Safety	1S031 Safety	1S051 Safety	1S071 Safety	1S091 Safety	1S000 Safety

CEM Code 1S000
AFSC 1S091, Superintendent
AFSC 1S071, Craftsman
Journeyman AFSC 1S051
Apprentice AFSC 1S031
Helper AFSC 1S011

SAFETY

1. Specialty Summary. Manages and conducts safety programs. Plans, organizes, directs, and controls safety activities. Analyzes mishap causes and trends, and assesses risk. Evaluates, inspects, and surveys areas and activities to eliminate mishap potentials. Conducts mishap investigations. Provides risk management consultation. Conducts safety education. Related DoD Occupational Subgroup: 493.

2. Duties and Responsibilities:
2.1. Plans, organizes, and directs safety activities. Develops policies and procedures for implementing and evaluating safety programs. Coordinates with staff activities and operational sections to ensure safety requirements are integrated into the organization program. Maintains close liaison with federal, state, municipal, and private agencies sharing common safety concerns. Establishes work priorities and maintains systems to effect accomplishment of program processes. Arranges for group meetings or individual instruction through coordination with commanders and supervisors.
2.2. Conducts and assists in managing safety programs. Evaluates safety program effectiveness. Coordinates with agencies and staff activities on safety related matters. Prepares and conducts briefings, meetings, training classes, and associated functions. Determines safety education requirements for groups or individuals. Develops training plans to ensure worker qualification and training. Prepares and conducts training programs for collateral duty safety personnel.
2.3. Performs inspections, surveys, and program evaluations of areas and operations to identify mishap potentials and assess integration of risk management approach, safety equipment, and procedures. Performs periodic and special inspections of facilities, flightlines, maintenance, and industrial areas; missile launch complexes and support functions; munitions facilities and operations; and non-industrial and recreational areas. Reports findings, assigns risk assessment codes, recommends corrective actions, and conducts follow-up inspections. Participates in Hazardous Communication, Environmental Compliance Assessment Management Program, and other environmental programs. Reviews explosives quantity distance waivers and deviations, and processes hazardous air traffic reports.
2.4. Reviews purchase, service, and construction contracts. Prepares safety criteria. Reviews contract proposals, statements of work, local purchase orders, and work requests for inclusion of safety criteria. Participates in workload planning and preconstruction conferences, pre and post award meetings, and pre and final inspections.
2.5. Reviews engineering plans and drawings. Reviews base master plans and site plans affecting construction, airfield, and explosive safety criteria. Recommends revision in drawing or rearranging materials.
2.6. Performs and assists in mishap investigations, prepares reports, and maintains records. Gathers factual mishap data, identifies causes, and recommends corrective actions to prevent recurrence of a similar mishap. Maintains a follow-up system.
2.7. Analyzes mishap data. Performs trend analysis and recommends measures to correct unfavorable conditions or procedures.
2.8. Provides safety consultation to commanders, supervisors, and functional managers on technical directives, safety criteria, and operational techniques.
2.9. Conducts safety education. Performs or assists in planning and scheduling safety education programs. Prepares or assists in preparing and distributing safety promotional and informative materials.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of fundamentals of safety education, public speaking, mishap prevention, human factors, industrial hygiene principles, industrial safety criteria, risk management, blueprint interpretation, mishap investigation techniques, methods of obtaining and distributing safety education materials, missile maintenance and servicing techniques, and the application of data automation to the safety function.
3.2. Education. For entry into this specialty, completion of high school or general educational development equivalency is mandatory.
3.3. Training. For award of AFSC 1S031, completion of a basic safety course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1S051. Qualification in and possession of AFSC 1S031. Also, experience in functions such as conducting safety programs, assisting in performing inspections and investigations, training principles, or risk assessment techniques.
3.4.2. 1S071. Qualification in and possession of AFSC 1S051. Also, experience performing or supervising functions related to safety activities.
3.4.3. 1S091. Qualification in and possession of AFSC 1S071. Also, experience managing safety activities and functions.
3.5. Other. The following are mandatory for entry into this specialty:

3.5.1. Prior qualification at the 5-skill level (3-skill level if no 5 level exists) in any AFSC.
3.5.2. Normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.3. Qualification to operate a government vehicle according to AFMAN 24-309, *Vehicle Operations.*
3.5.4. Ability to speak distinctly.

Attachment 9

AIRCREW PROTECTION CAREER FIELD (1T)

INTRODUCTION

The Aircrew Protection Career Field encompasses the functions involved in instructing aircrew and other designated personnel on the principles, procedures, and techniques of global survival; and locating and penetrating incident areas to provide emergency medical treatment, survival, and evacuation of survivors. Included is the impact of survival and recovery related life support equipment; recovery, evasion, captivity, resistance to exploitation, and escape; instructing aircrew on environmental physiology and use and care of aircrew life support equipment; and issuing, fitting, inspecting, and minor repairing of aircrew life support equipment. The following is a complete listing of AFSCs for the Aircrew Protection.

AIRCREW PROTECTION (1T)											
Input or Helper Level		**Apprentice or Semiskilled Level**		**Journeyman or Skilled Level**		**Craftsman or Advanced Level**		**Superintendent Level**		**Chief Enlisted Manager Level**	
1T011	Survival, Evasion, Resist, & Escape Tng	1T031	Survival, Evasion, Resist, & Escape Tng	1T051	Survival, Evasion, Resist, & Escape Tng	1T071	Survival, Evasion, Resist, & Escape Tng	1T091	Survival, Evasion, Resist, & Escape Tng	1T000	Survival, Evasion, Resist, & Escape Tng
1T111	Aircrew Life Support	1T131	Aircrew Life Support	1T151	Aircrew Life Support	1T171	Aircrew Life Support	1T191	Aircrew Life Support	1T100	Aircrew Life Support
1T211	Pararescue	1T231	Pararescue	1T251	Pararescue	1T271	Pararescue	1T291	Pararescue	1T200	Pararescue

CEM Code 1T000
AFSC 1T091, Superintendent
AFSC 1T071, Craftsman

Journeyman AFSC 1T051
Apprentice AFSC 1T031
Helper AFSC 1T011

SURVIVAL, EVASION, RESISTANCE, AND ESCAPE TRAINING
(Changed 31 Oct 98)

★1. Specialty Summary. Develops, manages and conducts survival, evasion, resistance, and escape (SERE) and personnel recovery (PR) programs, courses of instruction and training activities. Manages and controls SERE and PR activities. Develops and instructs formal course curricula and continuation training programs for aircrew members and other designated personnel. Included but are not limited to impact of conditions effecting survival, evasion, conduct after capture and resistance to exploitation, escape PR procedures, use of survival and life support equipment, and basic, advanced and emergency military parachuting. Related DoD Occupational Subgroup: 012.

★2. Duties and Responsibilities:
2.1. Plans, organizes, and directs activities. Designs and develops curriculum, functional structure, and procedures for SERE courses and programs. Determines training schedules according to course control documents, directives, policies, and instructional principles. Ensures training, mission accomplishment and student safety. Develops policies, procedures, and techniques for operational SERE matters in support of theater commanders and Joint Chiefs of Staff (JSC).
2.2. Performs SERE functions. Conducts developmental and operational test and evaluation of egress survival and life support equipment to include performing test parachute jumps with experimental systems to resolve technical programs. Performs controller, observer, evader and evader escort during survival and personnel recovery related exercises involving high-risk-of-capture personnel. Functions as in-theater SERE and PR subject matter expert during contingency, wartime, and military operations other than war. Develops theater combat search and rescue policies and special instructions. Manages development and coordination of SERE related programs including, but not limited to, blood chits, evasion charts, and evasion and escape aids.
2.3. Performs instructor duties. Prepares and conducts classroom, laboratory, and operational training. Plans individual instructor training activities. Uses lecture, demonstration or performance, guided discussion, time and circumstance, and non-directed discussion instructional methodology to accomplish learning objectives. Conducts training under conditions closely approximating actual SERE episodes, including global environmental conditions, combat situations, and captivity. Instructs on static line, military free fall (MFF), and emergency parachuting techniques. Performs parachute demonstration jumps for survival, egress, and life support continuation training students.
2.4. Inspects and evaluates SERE training activities. Evaluates SERE training courses, programs, and instructors to ensure standardization and compliance with policies, directives, course control documents, and instructional methodology. Examines equipment, supplies, and training aids and devices to determine adequacy and readiness.

★3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: global SERE and PR principles, procedures, and techniques and equipment, including pre-mediated and emergency parachuting; providing for personal protection and sustenance; communication and signaling; vectoring recovery assets; evasion; nuclear, chemical, and biological survival; resistance to exploitation; prisoner of war organization and communication; escape from captivity; physiology and psychology of survival; rough land travel and evacuation; survival medicine and first aid; land and water navigation and travel; cooperating with assisted recovery mechanisms caring for and using post-egress, recovery, and life support equipment; improvising and manufacturing clothing and equipment needed by a survivor; and lecture, demonstration or performance, guided discussion, time and circumstance, and role-play instructional methods and techniques.
3.2. Education. Completion of high school with courses in speech, education, physical education, biology, botany, anthropology, geology, and geography are desirable for entry into this specialty.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 1T031. Completion of the following courses:
3.3.1.1. SERE Indoctrination Course.
3.3.1.2. Basic Combat Survival Course.
3.3.1.3. Water Survival, Nonparachuting Course.
3.3.1.4. SERE Training Instructor Course.
3.3.2. 1T051. Completion of the following courses:
3.3.2.1. Arctic Survival Training Course.
3.3.2.2. Water Survival, Parachuting Course.
3.3.2.3. Resistance Training Orientation.

3.3.3. 1T071. Completion of the advanced SERE Training Instructor Course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1T051. Qualification in and possession of AFSC 1T031. Also, experience in the application of global combat survival principles, procedures, techniques, and equipment, including emergency parachuting; land and water navigation and travel; combat, tactical communication and signaling; CSAR operations, survival in nuclear, chemical, and biological contamination conditions; prisoner of war conduct after capture, organization and communication, and resistance to exploitation; improvising and manufacturing clothing and equipment needed by a survivor; recovery procedures; survival medicine rough land travel and recovery living under primitive conditions; escape and evasion techniques; use of post-egress survival and life support equipment.
3.4.2. 1T071. Qualification in and possession of AFSC 1T051. Also, experience in performing or supervising SERE functions and training activities.
3.4.3. 1T091. Qualification in and possession of AFSC 1T071. Also, experience in managing and directing SERE operations and training programs.
3.5. Other. The following are mandatory as indicated:
3.5.1. For award and retention of AFSC 1T031/51/71/91.
3.5.2. Eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program.*
3.5.3. Physical qualification for SERE Specialist duty according to AFI 48-123, *Medical Examination and Standards.*

CEM Code 1T100
AFSC 1T191, Superintendent
AFSC 1T171, Craftsman
Journeyman AFSC 1T151
Apprentice AFSC 1T131
Helper AFSC 1T111

AIRCREW LIFE SUPPORT

1. Specialty Summary. Manages and performs inspections, maintenance, and adjustments of aircrew life support and chemical defense equipment. Supervises and conducts aircrew shelter processing, chemical defense training and life support continuation training. Related DoD Occupational Subgroup: 860.

2. Duties and Responsibilities:
2.1. Inspects, maintains, and adjusts aircrew life support and chemical defense equipment such as flight helmets, oxygen masks, survival kits, night vision systems, parachutes, anti-G suits, eye and respiratory protective equipment, chemical biological protective oxygen mask, and other types of aircrew life support and chemical defense systems.
2.2. Issues and fits aircrew life support and chemical defense equipment. Installs and removes aircrew life support aircraft equipment. Uses various types of test equipment such as oxygen testers, leakage testers, radio testers, and other types of testers to conduct reliability testing on aircrew life support and chemical defense equipment. Maintains inspection and accountability documentation on life support equipment issued to aircrews or prepositioned on aircraft.
2.3. Conducts aircrew life support continuation and chemical defense equipment training classes. Instructs aircrews on equipment use, operation, and capabilities. Teaches aircrew techniques such as evasion procedures, emergency egress, combat survival procedures, environmental hazards, and other survival actions. Instructs aircrew hanging harness post ejection and bail-out descent procedures, and chemical defense donning, doffing, and decontaminating procedures.
2.4. Plans, directs, organizes, and evaluates aircrew life support operational aspects such as equipment accountability, personnel reliability, mobility readiness, and other activities necessary to meet operational readiness. Determines facilities, funding, and mobility life support assets to support unit taskings. Develops and submits budget requirements. Requisitions aircrew life support equipment and supplies. Obtains support from other agencies to maintain life support equipment.
2.5. Provides staff assistance to subordinate units. Conducts quality assurance inspections for compliance with policies and directives. Identifies and documents equipment and personnel training discrepancies and recommends corrective action. Evaluates and critiques aircrew life support instructors' effectiveness, and ensures presentations are accurate and current. Advises and assists agencies whose functions affect life support activities. Evaluates data involving equipment development and modification. Resolves life support equipment problems.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: aircrew life support equipment inspections and maintenance procedures; aircrew chemical defense equipment inspections and maintenance procedures; using, fitting, and caring for aircrew life support and chemical defense equipment; supply procedures; and conducting aircrew life support continuation and chemical defense training classes including post egress ejection and bail-out procedures.
3.2. Education. For entry into this specialty, completion of high school with courses in speech, general science, and basic computer applications is desirable.
3.3. Training. Completion of a basic aircrew life support aircrew life support specialist course is mandatory for award of AFSC 1T131.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1T151. Qualification in and possession of AFSC 1T131. Also, experience in functions such as instructing aircrews in life support continuation and chemical defense training procedures.
3.4.2. 1T171. Qualification in and possession of AFSC 1T151. Also, experience supervising or performing functions such as equipment inspections, specialist training programs, or aircrew life support continuation and chemical defense training.
3.4.3. 1T191. Qualification in and possession of AFSC 1T171. Also, experience managing or directing life support operations and aircrew life support training functions.
3.5. Other.
3.5.1. Ability to speak clearly and distinctly without speech impediment is mandatory for entry, award, and retention of these AFSCs.
3.5.2. Qualification to operate a government vehicle according to AFMAN 24-309, *Vehicle Operations* is mandatory for entry into this specialty.

CEM Code 1T200
AFSC 1T291, Superintendent
AFSC 1T271, Craftsman
Journeyman AFSC 1T251
Apprentice AFSC 1T231
Helper AFSC 1T211

PARARESCUE
(Changed 31 Oct 98)

★1. Specialty Summary. Performs, plans, leads, supervises, instructs, and evaluates pararescue activities. Performs as the essential surface, air link in Personnel Recovery (PR) and material recovery by functioning as the rescue and recovery specialist on flying status as mission crew or as surface elements. Provides rapid response capability and operates in the six geographic disciplines: mountain, desert, arctic, urban, jungle and water, day or night, to include friendly, denied, hostile, or sensitive areas. Provides assistance in and performs survival, evasion, resistance, and escape (SERE). Provides emergency trauma and field medical care, and security. Moves recovered personnel and materiel to safety or friendly control when recovery by aircraft is not possible. Related DoD Occupational Subgroup: 050.

★2. Duties and Responsibilities:
2.1. Performs mission planning and preparation. Studies operation mission requirements. Studies terrain and situation. Organizes and selects personnel, equipment, and weapons. Rehearses mission plan, makes reconnaissance, conducts back brief, safeguards information, and loads and configures aircraft. Issues warning order and provides mission plan objective brief.
2.2. Supervises and performs insertion, infiltration, exfiltration, and extraction functions. Conducts flight following, and confirms waypoint passage. Provides enroute emergency trauma and medical care. Provides and performs SERE. Provides recovery zone security and aircraft reception. Performs aerial and surface deployment methods to reach objective area. Uses aerial and surface methods to load and assist in loading objectives. Off-loads and transfers personnel and materiel. Prepares and dons mission and personal equipment. Performs inflight duties (if on flying status) to avoid and suppress air and surface threats through scanning, navigation assistance, and aerial gunnery operations. Performs nuclear, biological, and chemical (NBC) warfare defense. Provides guidance and input to aircraft commander for on-scene operations and confirms insertion and extraction points and infiltration and exfiltration methods.
2.3. Performs, supervises, and evaluates surface movement. Navigates on land or water. Performs overt, low visibility, or clandestine movement in friendly, hostile, denied, or sensitive land and water areas. Conducts surface search, contact, and on-scene authentication. Designates rally points. Selects bivouac sites. Conducts discrete surface-to-air and surface electronic and visual communications and signaling activities. Uses firearms and munitions to provide movement security and perform immediate action drills. Directs emergency close air support (ECAS). Provides reception for resupply operations. Conducts scuba, adverse terrain, and mountain rescue and recovery operations. Provides on-scene triage and survivor handling. Provides survival and evasion assistance. Provides photographic documentation. Recovers priority aerospace personnel and material.
2.4. Provides intelligence and operations information in debriefings and mission reports.
2.5. Supports the National Aeronautics and Space Administration (NASA) in recovery of aerospace personnel and materiel. Guides recovery of priority NASA space materiel.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: mission planning and preparation; aircraft and load characteristics; infiltration and exfiltration; insertion and extraction; surface movement; objective area actions; debriefing and reporting; team leader actions; emergency trauma and field medical care; basic and advance parachuting; adverse terrain and mountain operations; scuba and water operations; NBC warfare defense; SERE; night vision devices; firearms and munitions; communications and signaling; photographic documentation; legal responsibilities and ethics; vehicle operations; security, occupational safety and health, administration, and publications; individual fitness; and equipment qualification, inspection, maintenance, and accountability.
3.2. Education. For entry into this specialty, completion of high school is desirable. Also, completion of a certified emergency medical technician or paramedic course is desirable.

3.3. Training. For award of AFSC 1T231, completion of the following courses is mandatory:
3.3.1. Pararescue Indoctrination.
3.3.2. Airborne (Parachutist).
3.3.3. Special Forces Combat Diver Qualification.
3.3.4. Combat Survival Training.
3.3.5. United States Navy Underwater Egress Training.
3.3.6. Military Freefall Parachutist.
3.3.7. Special Operations Combat Medic Course.
3.3.8. Pararescue and Recovery Apprentice.
★3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1T251. Qualification in and possession of AFSC 1T231. Also, experience performing pararescue duties.
3.4.2. 1T271. Qualification in and possession of AFSC 1T251. Also, experience performing or supervising pararescue duties.
3.4.3. 1T291. Qualification in and possession of AFSC 1T271. Also, experience performing or managing pararescue functions as a pararescue team leader.
★3.5. Other. The following are mandatory as indicated:
3.5.1. For entry, award, and retention of these AFSCs, physical qualification for aircrew, parachute, and marine diving duty according to AFI 48-123, *Medical Examination and Standards*.
3.5.2. For entry into this specialty, successful completion of the physical ability and stamina test (PAST).
3.5.3. For award and retention of AFSCs 1T231/51/71/91:
3.5.3.1. Qualification, currency, and proficiency as a static line and military freefall parachutist, and as a military scuba diver.
3.5.3.2. Certification from the National Registry (or State) for Emergency Medical Technicians as an emergency medical technician. After initial certification, continued certification is mandatory.
3.5.3.3. Eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

Attachment 10

WEATHER CAREER FIELD (1W)

INTRODUCTION

The Weather Career Field covers the techniques involved in collecting, analyzing, and disseminating weather information, including forecasts of weather conditions in the atmosphere and space. Included are the use of weather observations, atmospheric and space sensing instruments, weather radar and satellite imagery, meteorological computer workstations, and products provided by military, national, and international weather centers.

Excluded is the organizational and field maintenance of electronic and other weather equipment. This function is included in the Communications - Electronics Systems Career Field. The following is a complete listing of AFSCs for Weather Career Field.

WEATHER (1W)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
1W011 Weather	1W031 Weather A Forecaster	1W051 Weather A Forecaster	1W071 Weather A Forecaster	1W091 Weather	1W000 Weather

CEM Code 1W000
AFSC 1W091, Superintendent
AFSC 1W071*, Craftsman
Journeyman AFSC 1W051*
Apprentice AFSC 1W031*
Helper AFSC 1W011

WEATHER
(Changed 31 Oct 98)

1. Specialty Summary. Performs and manages the collection, analysis, and forecast of atmospheric and space weather conditions, and the tailoring and communication of weather information. Supports Air Force, Army, Joint and DoD operations. Related DoD Occupational Subgroup: 420.

2. Duties and Responsibilities:
2.1. Collects and disseminates weather data and information. Uses fixed and deployable meteorological sensors to observe atmospheric and space weather conditions.
2.2. Uses satellite and radar imagery, computer generated graphics, and weather communication equipment and instruments to analyze atmospheric and space data and information.
2.3. Forecasts atmospheric and space weather conditions. Issues warnings and advisories to alert users to mission critical weather. Exploits weather analysis and data to enhance combat operations and training.
2.4. Tailors and communicates weather information to meet operational requirements.
2.5. Manages weather operations. Adapts weather resources to meet mission requirements. Ensures standardization and quality weather products, operations, and activities.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: combat weather skills; characteristics and principles of atmospheric and space weather; observation, analysis, prediction, and dissemination of weather information; operation of fixed and deployable meteorological or space weather systems; weather communications systems; use of weather products; and operator maintenance of weather equipment and instruments.
3.2. Education. For entry into this specialty, completion of high school with courses in physics, chemistry, earth sciences, geography, and mathematics is desirable.
3.3. Training. Completion of the following training is mandatory as indicated:
3.3.1. For award of AFSC 1W031, completion of a basic weather course.
3.3.2. For award of suffix A at the 3- or 5-skill level, completion of an advanced weather course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1W051. Qualification in and possession of AFSC 1W031. Also, experience performing functions such as observing, analyzing, and disseminating atmospheric or space weather data and information; and performing meteorological watch.
3.4.2. 1W071A. Qualification in and possession of AFSC 1W051A. Also, experience forecasting or supervising space or atmospheric weather operations.
3.4.3. 1W091. Qualification in and possession of AFSC 1W071A. Also, experience directing and managing atmospheric or space weather operations.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty:
3.5.1.1. Normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.1.2. Ability to speak distinctly.
3.5.2. For entry, award, and retention of these AFSCs:
3.5.2.1. Visual acuity correctable to 20/20 with glasses.
★3.5.2.2. Eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program,* is mandatory.

4. *Specialty Shredouts:

Suffix	*Portion of AFS to Which Related*
A	Forecaster

NOTE: Suffix A is applicable only to the 3-, 5-, and 7-skill levels. The 7-skill level AFSC is not authorized for use without suffix A..

Attachment 11

MANNED AEROSPACE MAINTENANCE CAREER FIELD (2A)

Introduction

The Manned Aerospace Maintenance Career Field includes:

Installing, maintaining, calibrating, and repairing avionics photographic and sensor equipment, integrated avionics equipment, and selected conventional avionics equipment; avionics guidance and control systems; communication and navigation systems; airborne communications, early warning radar, and electronic warfare equipment; and avionics support equipment.

Installing, removing, maintaining, and repairing aircrew egress, fuel, and pneudraulic systems including in-flight refueling systems; and maintaining aerospace ground equipment used in direct support of aircraft weapon systems.

Maintaining, repairing, and fabricating fabric and rubber equipment, protective covers, sound proofing, aircraft thermal radiation barriers, upholstery, fabric and rubberized protective clothing, life rafts, life preservers, and other fabric and rubber articles. Inspecting, maintaining, repairing, and packing personnel, deceleration, and cargo and aerial delivery parachutes; and nondestructive inspection of aerospace material parts, components, and pressurized systems.

Maintaining, repairing, and modifying helicopters, turboprop aircraft, propeller aircraft, and jet aircraft.

Maintaining aircraft propellers and jet engines that includes installing, removing, maintaining, and repairing turbojet and ramjet engines when installed on missile systems, and maintaining small, fuel, air turbine auxiliary engines installed on aircraft weapon systems.

Installing, removing, maintaining, and repairing aircraft electrical systems, environmental systems, and other accessory systems installed in aircraft weapon systems. Accessory systems include oxygen, heating, cooling, fire extinguishing, pressurizing, and air turbine auxiliary test systems.

Fabricating, molding, shaping, cutting, and joining metals; repairing metal parts; aircraft structural repairs, metal heat treating, welding, plating, forging, and machining; installing, modifying, and forming plastic articles; and maintaining and repairing fiber-glass-covered aircraft control surfaces; inspecting and preserving aircraft parts and materials. It also includes corrosion control for missile, aircraft, and support systems.

Excluded from this career field are the corrosion control and sheet metal functions associated with civil engineering areas of responsibility. Also, excluded from this career field are those functions associated with maintaining skid-mounted cryogenic storage containers.

★MANNED AEROSPACE MAINTENANCE (2A)											
Input or Helper Level		Apprentice or Semiskilled Level		Journeyman or Skilled Level		Craftsman or Advanced Level		Superintendent Level		Chief Enlisted Manager Level	
2A011	Avionics Test Stn & Cmpnt	2A031	Avionics Test Stn & Cmpnt	2A051	Avionics Test Stn & Cmpnt	2A071	Avionics Test Stn & Cmpnt	2A190	★Avionics	2A000	Avionics Systems
★A	F-15	★A	F-15	★A	F-15	★A	F-15				
B	F-16/F-117/ A-10/B-1B/ C-17	B	F-16/F-117/ A-10/B-1B/ C-17	B	F-16/F-117/ A-10/B-1B/ C-17	B	F-16/F-117/ A-10/B-1B/ C-17				
2A111	Avionic Sensors Maint	2A131	Avionic Sensors Maint	2A151	Avionic Sensors Maint	2A171	Avionic Sensors Maint				
2A112	Avionics Guidance & Con Sys	2A132	Avionics Guidance & Con Sys	2A152	Avionics Guidance & Con Sys	2A172	Avionics Guidance & Con Sys				
2A113	Comm & Nav Systems	2A133	Comm & Nav Systems	2A153	Comm & Nav Systems	2A173	Comm & Nav Systems				

MANNED AEROSPACE MAINTENANCE (2A)

Continued

Input or Helper Level		Apprentice or Semiskilled Level		Journeyman or Skilled Level		Craftsman or Advanced Level		Superintendent Level		Chief Enlisted Manager Level	
2A114	Abn Surveillance Radar Systems	2A134	Abn Surveillance Radar Systems	2A154	Abn Surveillance Radar Systems	2A174	Abn Surveillance Radar Systems	2A190	Conventional Avionics	2A000	Avionics Systems
2A117	Elect Warfare Systems	2A137	Elect Warfare Systems	2A157	Elect Warfare Systems	2A177	Elect Warfare Systems				
2A311	F-15/F-111 Avionic Sys	2A331	F-15/F-111 Avionic Sys	2A351	F-15/F-111 Avionic Sys	2A371	F-15/F-111 Avionic Sys	2A390	Tactical Aircraft	2A300	Aircraft
A	Attack Con	A	Attack Con	A	Attack Con						
B	Instm & Flt Con	B	Instm & Flt Con	B	Instm & Flt Con						
C	Comm, Nav, & Pen Aids	C	Comm, Nav, & Pen Aids	C	Comm, Nav, & Pen Aids						
2A312	F-16 Avionic Systems	2A332	F-16 Avionic Systems	2A352	F-16 Avionic Systems	2A372	F-16 Avionic Systems				
A	Attack Con	A	Attack Con	A	Attack Con						
B	Instm & Flt Con	B	Instm & Flt Con	B	Instm & Flt Con						
C	Comm, Nav, & Pen Aids	C	Comm, Nav, & Pen Aids	C	Comm, Nav, & Pen Aids						
2A313	Tac Acft Maint	2A333	Tac Acft Maint	2A353	Tac Acft Maint	2A373	Tac Acft Maint				
A	F-15	A	F-15	A	F-15	A	F-15				
B	F-16/F-117	B	F-16/F-117	B	F-16/F-117	B	F-16/F-117				
C	F/EF-111	C	F/EF-111	J	Gen (Except	J	Gen (Except				
D	F-4	D	F-4		F-15/F-16/		F-15/F-16/				
E	A-10	E	A-10		F-117)		F-117)				
F	T-1/T-38	F	T-1/T-38								
G	T-37/OA-37	G	T-37/OA-37								
H	U-2	H	U-2								
Z	All Other	Z	All Other								
2A411	Acft Guidance & Control	2A431	Acft Guidance & Control	2A451	Acft Guidance & Control	2A471	Acft Guidance & Control	★2A590	Aerosp Maint		
2A412	Acft Comm & Nav Systems	2A432	Acft Comm & Nav Systems	2A452	Acft Comm & Nav Systems	2A472	Acft Comm & Nav Systems				
2A413	Acft Comd Con Comm & Nav Systems	2A433	Acft Comd Con Comm & Nav Systems	2A453	Acft Comd Con Comm & Nav Systems	2A473	Acft Comd Con Comm & Nav Systems				
2A511	Aerosp Maint	2A531	Aerosp Maint	2A551	Aerosp Maint	2A571	Aerosp Maint				
A	C-9/C-20/C-21/ C-22/C-141/ T-39/T-43	A	C-9/C-20/C-21/ C-22/C-141/ T-39/T-43	J	C-5/C-9/C-12/ C-17/C-20/ C-21/C-22/						
B	C-12/C-26/ C-27/C-130	B	C-12/C-26/ C-27/C-130		C-26/C-27/ C-130/C-141/						
C	C-5	C	C-5		T-39/T-43						
D	C-17	D	C-17	K	B-1/B-2/B-52						
E	B-1/B-2	E	B-1/B-2	L	C-135/C-18/						
F	B-52	F	B-52		E-3/E-4/KC10/						
G	C18/C135/E3/ VC25/VC137	G	C18/C135/E3/ VC25/VC137		VC-25/VC-137						
H	E-4/KC-10	H	E-4/KC-10								
2A512	Helicopter Maint	2A532	Helicopter Maint	2A552	Helicopter Maint	2A572	Helicopter Maint				
A	MH-53	A	MH-53								
B	H-60	B	H-60								
C	H-1	C	H-1								

MANNED AEROSPACE MAINTENANCE (2A)

Continued

Input or Helper Level		Apprentice or Semiskilled Level		Journeyman or Skilled Level		Craftsman or Advanced Level		Superintendent Level		Chief Enlisted Manager Level	
2A513	Bomber Avionics Systems	2A533	Bomber Avionics Systems	2A553	Bomber Avionics Systems	2A573	Bomber Avionics Systems	2A590	Aerosp Maint	2A300	Aircraft
A	Off Avionic Systems, CITS, OBTS, Doppler Radar Systems	A	Off Avionic Systems, CITS, OBTS, Doppler Radar Systems	A	Off Avionic Systems, CITS, OBTS, Doppler Radar Systems	A	Off Avionic Systems, CITS, OBTS, Doppler Radar Systems				
B	Instru & Flt Con Computer	B	Instru & Flt Con Computer	B	Instru & Flt Con Computer	B	Instru & Flt Con Computer				
C	Comm, Nav, & Def Avionic	C	Comm, Nav, & Def Avionic	C	Comm, Nav, & Def Avionic	C	Comm, Nav, & Def Avionic				
2A611	Aerospace Propulsion	2A631	Aerospace Propulsion	2A651	Aerospace Propulsion	2A671	Aerospace Propulsion	2A691	Aerospace Propulsion	2A600	Systems
B	Turboprop & Turboshaft	B	Turboprop & Turboshaft	A	Jet Engines	A	Jet Engines				
C	TF33 Jet Engines	C	TF33 Jet Engines	B	Turboprop & Turboshaft	B	Turboprop & Turboshaft				
D	F100 Jet Eng	D	F100 Jet Eng								
E	F110 Jet Eng	E	F110 Jet Eng								
2A612	Aerosp Ground Equip	2A632	Aerosp Ground Equip	2A652	Aerosp Ground Equip	2A672	Aerosp Ground Equip	2A692	Aerosp Ground Equip		
2A613	Aircrew Egress Systems	2A633	Aircrew Egress Systems	2A653	Aircrew Egress Systems	2A673	Aircrew Egress Systems	2A690	Acft Systems		
2A614	Acft Fuel Sys	2A634	Acft Fuel Sys	2A654	Acft Fuel Sys	2A674	Acft Fuel Sys				
2A615	Acft Hydraulic Systems	2A635	Acft Hydraulic Systems	2A655	Acft Hydraulic Systems	2A675	Acft Hydraulic Systems				
2A616	Acft Elect & Envir Systems	2A636	Acft Elect & Envir Systems	2A656	Acft Elect & Envir Systems	2A676	Acft Elect & Envir Systems				
2A711	Acft Metals Technology	2A731	Acft Metals Technology	2A751	Acft Metals Technology	2A771	Acft Metals Technology	2A790	Acft Fabrication		
2A712	Nondestructive Inspection	2A732	Nondestructive Inspection	2A752	Nondestructive Inspection	2A772	Nondestructive Inspection				
2A713	Acft Structural Maint	2A733	Acft Structural Maint	2A753	Acft Structural Maint	2A773	Acft Structural Maint				
2A714	Survival Equipment	2A734	Survival Equipment	2A754	Survival Equipment	2A774	Survival Equipment				

CEM Code 2A000 ..... Superintendent AFSC 2A190

★AVIONICS
(Changed 31 Oct 98)

1. Specialty Summary. Manages and directs maintenance functions and activities. Included are areas of avionics sensors, communications and navigation, guidance and control, airborne warning and control radar, inertial and radar navigation, airborne command post communication systems, avionics test stations, electronic warfare (EW) systems, and avionics support equipment. Related DoD Occupational Subgroup: 102.

2. Duties and Responsibilities:
2.1. Plans, organizes, and directs avionics activities. Establishes production controls and work standards. Analyzes reports on the installation, removal, overhaul, repair, calibration, and modification of avionics systems and associated support equipment.
2.2. Directs avionics activities. Directs, controls, and plans inspection, removal, replacement, calibration, and repair of avionics systems and associated support equipment. Determines extent and economy of repair or replacement of components. Coordinates with supply, operations, and other maintenance activities to improve procedures and ensure mission support.
2.3. Inspects and evaluates avionics activities. Establishes and checks inspection procedures. Inspects activities to solve maintenance, supply, manpower, and personnel problems. Interprets findings, and recommends corrective action. Ensures compliance with directives governing handling, use, and disposal of hazardous waste and material.
2.4. Performs avionics functions. Solves problems and interprets publications for inspection, repair, modification, overhaul, removal, installation, and calibration of avionics systems and associated support equipment. Plans and implements budgets, modifications, and acquisition processes. Plans and executes mobility programs and equipment deployments. Plans physical layout of facilities, and ensures support equipment and spare parts availability.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: avionics and electronic computers, EW systems, data processing systems, and radar and inertial electronic principles; electronic and mechanical principles applying to guidance and control and power and motion transmission; infrared; lasers; cryogenics; low light level television and optical systems; altitude stabilization theory, data flow analysis, torquing amplifiers, accelerometers, and servo mechanisms; testing, measuring, and reference standard devices; digital processes, computer logic, and microelectronics of integrated circuits; supply procedures, personnel management, and administrative techniques; concepts and application of maintenance directives; interpreting schematic, logic, and wiring diagrams, blueprints, and technical orders; and budgeting, modification, and acquisition processes.
3.2. Education. Not used.
3.3. Training. Not used.
3.4. Experience. For award of AFSC 2A190, qualification in and possession of AFSC 2A071X, 2A171/72/73/74, or 2A177 is mandatory. Also, experience is mandatory managing or directing functions such as communication systems, guidance and control, avionics test stations, avionics sensors, radar, EW, or navigation.
3.5. Other. Not used.

AFSC 2A071*, Craftsman **Apprentice AFSC 2A031***
AFSC 2A051*, Journeyman **Helper AFSC 2A011***

AVIONICS TEST STATION AND COMPONENTS
(Changed 31 Oct 98)

1. Specialty Summary. Performs and manages avionics test station functions and activities. Operates, inspects, maintains, programs, and calibrates computer and manually operated avionics test equipment, associated support equipment (SE), and aircraft avionics systems components. Related DoD Occupational Subgroup: 198.

2. Duties and Responsibilities:
2.1. Analyzes performance and isolates malfunctions of avionics test equipment, SE, and aircraft components. Performs operational tests on test equipment, SE, and aircraft components to determine condition, analyze performance, and isolate malfunctions in the radar, communications, weapons control, electronic warfare, and flight control systems. Traces logic, schematic, test flow, and wiring diagrams. Uses self-test and software functions, computer and manually operated avionics test equipment, SE, and test measurement and diagnostic equipment (TMDE) to determine the scope of repair and adjustment required.
2.2. Inspects, maintains, programs, and calibrates avionics equipment, SE, and aircraft components. Removes and replaces assembly components using hand tools, soldering devices, and electronic instruments. Repairs wiring harnesses and interconnecting cables. Services, replaces, and cleans filtration and cooling components, and performs maintenance on avionics SE. Repairs oscillator, amplifier, waveshaping, and logic circuits; microwave equipment; servomechanisms; radio frequency circuits; video displays; and power supply circuits. Loads computer programs. Aligns, calibrates, and modifies avionics test equipment, SE, and aircraft components.
2.3. Manages integrated avionics activities and complies with directives, policies, and procedures. Complies with maintenance standards. Initiates deficiency reports, maintenance analysis documents, technical data changes, and equipment records. Interprets, establishes, and complies with training, security, and safety standards. Ensures compliance with directives governing handling, use, and disposal of hazardous waste and material. Records information on data collection forms and automated systems. Directs and controls maintenance and inspection of integrated avionics test stations and aircraft components.
2.4. Plans and organizes integrated avionics activities. Plans and organizes integrated avionics equipment assembly, calibration, repair, modification, and maintenance activities. Plans physical layout of facilities, and ensures SE and spare parts availability.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electrical theory and electronic fundamental, including solid-state, binary, digital, octal, and hexadecimal numbering systems; Boolean algebra; computer logic, and programming principles and language; printed circuitry; microwave principles; microminiature solid state devices; operating principles of avionics components supported by test stations; electrically actuated mechanical device theory; operating principles of basic measuring and testing devices; interpreting schematic, logic, data flow, and wiring diagrams; interpreting programming tables and technical publications; using, caring for, and applying special, standard, and common hand tools; interpreting testing, measuring, and referencing devices; concepts and application of applicable maintenance directives; Air Force supply procedures; and use and disposal of hazardous waste and material.
3.2. Education. Completion of high school is desirable with courses in physics, algebra, trigonometry, and computer principles.
3.3. Training. For award of AFSC 2A031X, completion of the applicable suffix basic avionics test station and components course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A051X. Qualification in and possession of AFSC 2A031X. Also, experience in functions such as identifying performance and isolating malfunctions encountered with avionic components; using and repairing avionic electrical, electronic, and mechanical equipment; or aligning and calibrating avionic test stations and SE.
3.4.2. 2A071X. Qualification in and possession of AFSC 2A051X. Also, experience performing or supervising functions such as installing, inspecting, repairing, or overhauling avionic test stations and SE.

3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards.*
3.5.2. For award and retention of AFSC 2A031X/51X/71X, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program.*

★4. *Specialty Shredouts:

Suffix	*Portion of AFS to Which Related*
A	F-15
B	F-16/F-117/A-10/B-1B/C-17

AFSC 2A171, Craftsman **Apprentice AFSC 2A131**
AFSC 2A151, Journeyman **Helper AFSC 2A111**

AVIONIC SENSORS MAINTENANCE

1. Specialty Summary. Maintains, repairs, inspects, or supervises maintenance actions on avionic sensor systems equipment such as infrared detector sets, closed circuit and low light level television, optical cameras, data display sets, infrared mapping sets, videotape and digital recorders, laser target designator, laser receivers, terrain following radar, sensor control systems, and associated support equipment (SE). Related DoD Occupational Subgroup: 102.

2. Duties and Responsibilities:
2.1. Performs avionic sensor systems equipment maintenance. Tests, inspects, troubleshoots, or supervises these actions on avionic sensor systems and SE to locate defects in electronic, electro-optical, and mechanical components. Operates equipment on aircraft or in shop, and evaluates equipment performance. Prepares mobile maintenance facilities for rapid deployment.
2.2. Repairs, overhauls, and modifies avionic sensor systems and components, and related aircraft systems. Isolates malfunctioning equipment through functional checks, measurements, and other flightline or shop tests. Runs automatic diagnostics software. Repairs, replaces, aligns, services, inspects, calibrates, or supervises these actions on avionic sensor systems and SE. Overhauls subsystems of avionic sensor systems. Uses manual and automatic test equipment to test components.
2.3. Installs avionic sensor systems. Ensures equipment serviceability prior to installing on aircraft. Assembles, connects, and boresights flightline replaceable components. Tests installed equipment according to technical orders. Prepares aircraft for low altitude attack profiles, precision bombing, covert operations, and reconnaissance.
2.4. Inspects avionic sensor equipment and maintains inspection records. Inspects or manages inspection of avionic sensor equipment to determine operational status. Interprets inspection findings, and determines adequacy of corrective actions. Reports product quality deficiencies and recommends improvements to equipment and maintenance processes. Posts inspection findings on maintenance and inspection records.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: principles of laser, infrared, radar, optics, photography, cryogenics, refrigeration and environmental controls, videotape, closed circuit and low light level television, and electronics; analog and digital components and techniques; microprocessors and associated computers; interpreting technical orders, wiring and logic diagrams, and schematic drawings applying to avionic sensor systems and related SE; and concepts and application of maintenance directives.
3.2. Education. For entry into this specialty, completion of high school with courses in physics, chemistry, and mathematics is desirable.
3.3. Training. For award of AFSC 2A131, completion of a basic avionic sensor maintenance course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A151. Qualification in and possession of AFSC 2A131. Also, experience in functions such as maintaining, troubleshooting, aligning, calibrating, or repairing avionic sensor equipment and support equipment.
3.4.2. 2A171. Qualification in and possession of AFSC 2A151. Also, experience performing or supervising functions such as maintaining and repairing avionic sensor equipment and related support equipment.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty:
3.5.1.1. Normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.1.2. Visual qualification according to Air Force Occupational Safety and Health Standard 161-10, for performing duty in laser hazard areas.
3.5.2. For award and retention of AFSCs 2A131/51/71, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

AFSC 2A172, Craftsman **Apprentice AFSC 2A132**
AFSC 2A152, Journeyman **Helper AFSC 2A112**

AVIONICS GUIDANCE AND CONTROL SYSTEMS
(Changed 30 Apr 94)

1. Specialty Summary. Performs and supervises intermediate-level maintenance activities. Troubleshoots and repairs avionics guidance and control systems, aircraft components, and associated in-shop support equipment. Related DoD Occupational Subgroup: 102.

2. Duties and Responsibilities:
2.1. Diagnoses equipment malfunctions and advises on system problems and deficiencies. Analyzes equipment operating characteristics to determine sources of malfunctions. Identifies maintenance problem areas and recommends corrective action. Performs production superintendent, flight chief, support, and maintenance staff functions. Advises on aligning and calibrating procedures to ensure optimum operating efficiency. Reviews automated maintenance summaries to determine trends and production effectiveness.
2.2. Maintains, operates, and modifies guidance and control units. Adjusts and aligns components for operating efficiency. Diagnoses malfunctions using technical orders, schematics, wiring diagrams, mock-ups, and test equipment. Tests repaired equipment using bench mock-ups and related test equipment.
2.3. Maintains inspection and maintenance data records. Updates operational logs, inspection records, aircraft forms, and automated maintenance data systems. Complies with security directives.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electrical and mechanical principles; theory of analog and digital electronic principles, solid state devices, and application of servoamplifiers and computers applied to guidance and control equipment and systems; interpreting technical orders, wiring diagrams, and schematic drawings; application of maintenance directives; and proper handling, use, and disposal of hazardous waste and materials.
3.2. Education. For entry into this specialty, completion of high school with courses in basic electronics, physics, and mathematics is desirable.
3.3. Training. For award of AFSC 2A132, completion of a basic avionics guidance and control systems course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A152. Qualification in and possession of AFSC 2A132. Also, experience in functions such as maintaining, testing, inspecting, repairing, and applying the theory of electronic principles to avionics guidance and control systems equipment and components.
3.4.2. 2A172. Qualification in and possession of AFSC 2A152. Also, experience performing or supervising functions such as installing, inspecting, or repairing aircraft avionics guidance and control systems.
3.5. Other. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.

AFSC 2A173, Craftsman **Apprentice AFSC 2A133**
AFSC 2A153, Journeyman **Helper AFSC 2A113**

COMMUNICATION AND NAVIGATION SYSTEMS

1. Specialty Summary. Performs and supervises intermediate and organizational maintenance activities. Troubleshoots and repairs avionics communication and navigation systems, aircraft components, and associated support equipment. Related DoD Occupational Subgroup: 102.

2. Duties and Responsibilities:
2.1. Advises on communication and navigation systems problems. Uses layout drawings, schematics, and logic and pictorial diagrams to diagnose maintenance problems. Advises on aligning and calibrating procedures to ensure optimum operating efficiency. Analyzes data received from testing and troubleshooting procedures to determine necessary repair. Identifies maintenance problem areas, and recommends corrective action. Develops methods to improve maintenance efficiency.
2.2. Inspects, maintains, and monitors malfunctioning units. Tunes, adjusts, and aligns components for operating efficiency. Diagnoses malfunctions using technical orders, schematics, wiring diagrams, mock-ups, and test equipment. Tests repaired equipment using bench mock-ups and related test equipment.
2.3. Removes, maintains, modifies, and checks out communication and navigation systems. Removes faulty line replaceable units. Checks line replaceable unit operation to determine scope of repair required. Disassembles unserviceable units. Assembles units after repair, performs alignment, and makes final shop check. Maintains and reviews maintenance data collection and inspection records.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electronic principles including theory of transistors and solid-state components, integrated circuits, and digital techniques applied to communication and navigation equipment and components; interpreting technical orders, wiring diagrams, and schematic drawings; concepts and application of maintenance directives; and proper handling, use and disposal of hazardous waste and material.
3.2. Education. For entry into this specialty, completion of high school with courses in physics and mathematics is desirable.
3.3. Training. For award of AFSC 2A133, completion of a basic avionics communication and navigation systems course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A153. Qualification in and possession of AFSC 2A133. Also, experience in functions such as maintaining, testing, inspecting, or repairing aircraft communication and navigation systems.
3.4.2. 2A173. Qualification in and possession of AFSC 2A153. Also, experience performing or supervising functions such as installing, inspecting, or repairing communication and navigation systems.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For award and retention of AFSCs 2A133/53/73, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

AFSC 2A174, Craftsman **Apprentice AFSC 2A134**
AFSC 2A154, Journeyman **Helper AFSC 2A114**

AIRBORNE SURVEILLANCE RADAR SYSTEMS
(Changed 30 Apr 98)

1. Specialty Summary. Inspects, modifies, and maintains airborne warning and control system (AWACS) surveillance radar, joint surveillance target attack radar systems (JSTARS), and interrogator systems. Related DoD Occupational Subgroup: 104.

2. Duties and Responsibilities:
2.1. Advises on problems of fault detection and isolation, maintenance, and modification of surveillance radar and interrogation systems. Analyzes equipment operating characteristics to determine sources of malfunctions. Identifies maintenance problem areas, and recommends corrective action. Performs production functions. Coordinates maintenance plans to meet operational commitments. Supervises and assists in aircraft launching and recovery. Reviews maintenance data collection summaries to determine trends and production effectiveness. Debriefs flight personnel.
2.2. Inspects and performs surveillance radar and interrogator systems maintenance. Inspects and tests radar and interrogator systems to locate defects such as cracked or deteriorated wiring, loose mountings, and defective connections. Modifies equipment according to time compliance technical orders and other directives. Isolates malfunctioning radar equipment using built-in and manual fault isolation testing and diagnostic routines. Checks components for technical order compliance. Verifies equipment performance and modifications.
2.3. Maintains ground test stations, support equipment (SE), and maintenance records. Operates and maintains surveillance radar and interrogator systems SE; and posts entries on maintenance forms.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electronic and computer fundamentals, solid state devices, numbering systems, and principles of radio frequency transmission and reception applied to AWACS and JSTARS surveillance radar and interrogator systems; concepts and application of maintenance directives; wiring, logic, and schematic diagrams; digital data processing; pulse Doppler radar theory; nuclear hardness integrity maintenance; and Air Force supply procedures.
3.2. Education. For entry into this specialty, completion of high school with courses in physics and mathematics is desirable.
3.3. Training.
3.3.1. For award of AFSC 2A134, completion of a basic airborne surveillance radar systems maintenance course is mandatory.
3.3.2. For award of AFSC 2A174, completion of the craftsman avionics advanced workcenter management course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A154. Qualification in and possession of AFSC 2A134. Also, experience installing, repairing, testing, or modifying surveillance radar and interrogator systems using electronic test equipment.
3.4.2. 2A174. Qualification in and possession of AFSC 2A154. Also, experience performing or supervising functions such as manual testing, installing, repairing, or modifying radar and interrogator systems using test equipment.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For award and retention of AFSCs 2A134/54/74, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

AFSC 2A177, Craftsman **Apprentice AFSC 2A137**
AFSC 2A157, Journeyman **Helper AFSC 2A117**

ELECTRONIC WARFARE SYSTEMS
(Changed 31 Oct 97)

1. Specialty Summary. Supervises and performs inspections, installation, removal, and maintenance on electronic warfare (EW), intercept, and analysis equipment; test stations, and special purpose support equipment (SE). Related DoD Occupational Subgroup: 102.

2. Duties and Responsibilities:
2.1. Performs production superintendent, flight chief, expediter, support, and maintenance staff functions. Coordinates maintenance plans to meet operational commitment. Supervises and assists in aircraft launch, recovery, and general ground handling. Reviews automated maintenance summaries to determine trends and production effectiveness. Performs and supervises maintenance on EW, intercept, and analysis equipment. Isolates malfunctions by inspections, voltage checks, resistance measurements, waveform observations, and other tests using SE, built in test computer aided diagnostics and manuals.
2.2. Repairs EW systems, and intercept and analysis equipment. Repairs intercept, panoramic, and radar warning receivers; jamming transmitters; EW pods; dispensers; signal analysis equipment; recorders; direction finders; digital computer subsystems; infrared; test stations, and special purpose SE. Tests repaired components for proper assembly using bench mockups and test equipment. Overhauls modules, including replacement of components using handtools, soldering avionics and electronic equipment, and installing components according to technical publications.
2.3. Installs and removes internally and externally mounted EW, intercept, and analysis equipment. Checks equipment for serviceability. Assembles, connects, and wires equipment. Operates and maintains reprogramming and memory loading devices. Verifies configuration of installed equipment and software. Operates and aligns equipment.
2.4. Inspects and advises on installation, repair, and overhaul of EW, intercept, and analysis equipment. Uses layout drawings, schematics, computer aided diagnostics, and pictorial diagrams to solve maintenance problems. Analyzes equipment operation to isolate malfunctions. Determines repair procedures to correct defective equipment. Interprets maintenance and installation policies and procedures. Identifies maintenance problem areas, and recommends corrective action. Recommends methods for improving maintenance efficiency. Interprets inspection findings, and determines corrective action. Checks components to ensure compliance with technical publications. Evaluates modifications. Evaluates accuracy of completed inspection and maintenance records.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: EW theory and techniques; radio frequency; infrared and electro-optical principles, including solid state devices, dual mode transmitting systems, and principles of logic and digital techniques; application of electronic theory and operational settings to EW, intercept, and analysis equipment, and special purpose SE; concepts and application of maintenance directives; and using and interpreting technical orders, computer programming media or instructions, blueprints, schematics, wiring, and logic diagrams.
3.2. Education. For entry into this specialty, completion of high school with courses in physics, mathematics, and computers is desirable.
3.3. Training. For award of AFSC 2A137, completion of a basic EW systems maintenance course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A157. Qualification in and possession of AFSC 2A137. Also, experience in functions such as operating, testing, evaluating, aligning, installing, calibrating, or maintaining EW equipment or using special purpose test equipment.
3.4.2. 2A177. Qualification in and possession of AFSC 2A157. Also, experience performing or supervising functions such as EW related equipment or using and interpreting associated test equipment.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For award and retention of AFSCs 2A137/57/77, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

CEM Code 2A300 **Superintendent AFSC 2A390**

TACTICAL AIRCRAFT

1. Specialty Summary. Manages maintenance activities engaged in planning, inspecting, repairing, and servicing tactical aircraft and support equipment (SE). Related DoD Occupational Subgroup: 600.

2. Duties and Responsibilities:
2.1. Plans and organizes tactical aircraft maintenance activities. Plans, organizes, and manages maintenance activities for repair of aircraft and associated SE. Responsible for maintenance planning and inspecting. Coordinates with supply, operations, and other support activities to improve procedures and resolve problems.
2.2. Directs tactical aircraft maintenance activities. Evaluates and directs processes used in inspecting, maintaining, and servicing aircraft, components, and SE. Prioritizes maintenance and repair functions. Supervises preparation of maintenance forms for aircraft repair, inspection, and parts replacement. Directs aircraft battle damage repair and crash recovery operations.
2.3. Inspects and evaluates aircraft maintenance activities. Inspects maintenance performed on tactical aircraft, systems, and components. Evaluates maintenance units to determine operational status and to provide assistance in solving maintenance, supply, and personnel problems. Interprets and discusses inspection findings, and recommends action to correct deficiencies.
2.4. Performs aircraft maintenance management functions. Resolves problems and interprets technical publications for inspecting, maintaining, and modifying aircraft and SE. Ensures submission of deficiency reports. Ensures funds and resources are projected to support maintenance effort, and are managed to optimize mission accomplishment. Ensures unit meets mobility requirements.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electrical and mechanical principles applying to aircraft and SE; concepts and application of maintenance directives; maintenance data reporting; interpreting and use of maintenance data reports and technical orders; Air Force supply procedures; resource management; and proper handling, use, and disposal of hazardous waste and materials.
3.2. Education. Not used.
3.3. Training. Not used.
3.4. Experience. For award of AFSC 2A390, qualification in and possession of AFSC 2A371, 2A372, or 2A373X is mandatory. Also, experience is mandatory managing or directing functions such as inspecting and maintaining aircraft and SE.
3.5. Other. Not used.

AFSC 2A371, Craftsman **Apprentice AFSC 2A331***
AFSC 2A351*, Journeyman **Helper AFSC 2A311***

F-15/F-111 AVIONIC SYSTEMS
(Changed 30 Apr 98)

1. Specialty Summary. Isolates malfunctions, and repairs and inspects F-15 and F-111 integrated avionic systems at organizational levels. Inspects, services and performs general aircraft handling procedures. Related DoD Occupational Subgroup: 198.

2. Duties and Responsibilities:
2.1. Identifies and isolates F-15 and F-111 integrated avionic systems malfunctions, and analyzes performance. Operates F-15 and F-111 integrated avionic systems to determine operational condition. Interprets equipment operation to isolate malfunctions in systems such as attack control, instrument, flight control, communications, navigation, and penetration aids. Traces data flow and wiring diagrams. Uses built-in test functions, electronic measuring equipment, support aerospace ground equipment (AGE), and hand tools. Monitors equipment performance and detects and analyzes malfunctions.
2.2. Removes, installs, aligns, and checks F-15 and F-111 integrated avionic systems. Removes and installs line replaceable units, and aligns systems. Operationally checks externally mounted avionic equipment. Boresights systems. Performs organizational maintenance level modifications.
2.3. Inspects F-15 and F-111 integrated avionic systems, post entries, and maintain inspection and maintenance records. Inspects avionic systems and determines operational status. Interprets inspection findings, and determines corrective action adequacy. Reviews maintenance management publications and procedures to obtain avionic systems information. Recommends methods to improve equipment performance and maintenance procedures. Uses automated maintenance systems and Computer Fault Reporting Systems (CFRS). Inputs, validates, and analyzes data processed to automated systems. Clears and closes out completed maintenance discrepancies in automated maintenance systems.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electronic, microelectronic, gyro, synchro, mechanical, and indicator principles, theory, and application; factors involved in transmitting and receiving within the radio frequency and radar frequency ranges; digital computer logic; using and interpreting testing and measuring devices; principles of aerodynamics and motion and power transmission by mechanical and electronic means; electronic combat principles; and concepts and application of maintenance directives.
3.2. Education. For entry into this specialty, completion of high school with courses in physics and mathematics is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 2A331X. Completion of the applicable suffix basic avionic systems course.
3.3.2. 2A371. Completion of the advanced F-15 and F-111 avionic systems course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A351X. Qualification in and possession of AFSC 2A331X. Also, experience in functions such as isolating malfunctions, installing line replaceable units, and using AGE necessary to maintain avionic systems.
3.4.2. 2A371. Qualification in and possession of AFSC 2A351X. Also, experience performing or supervising functions such as installing, maintaining, or inspecting F-15 or F-111 avionic systems.
3.5. Other. The following are mandatory as indicated.
3.5.1. For entry into this specialty, normal color vision as defined in AFMAN 48-123, *Medical Examination and Standards*.
3.5.2. For award and retention of AFSCs 2A331X/51X/71, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

4. Specialty Shredouts

Suffix	*Portion of AFS to Which Related*
A	Attack Control
B	Instrument and Flight Controls
C	Communication, Navigation, and Penetration Aids

NOTE: Suffixes A, B, and C are applicable to the 1-, 3-, and 5-skill levels only.

AFSC 2A372, Craftsman **Apprentice AFSC 2A332***
AFSC 2A352*, Journeyman **Helper AFSC 2A312***

F-16 AVIONIC SYSTEMS
(Changed 30 Apr 96)

1. Specialty Summary. Analyzes malfunctions and inspects, installs, and maintains F-16 avionic systems at the organizational level. Inspects, services, and performs general aircraft handling procedures. Related DoD Occupational Subgroup: 198.

2. Duties and Responsibilities:
2.1. Analyzes performance and isolates F-16 avionic systems malfunctions. Operates F-16 avionic systems to determine operational condition. Analyzes equipment operating characteristics to isolate malfunctions in systems such as attack control, instrument, flight control, communication, navigation, identification, and penetration aids systems. Traces data flow and wiring diagrams. Uses built-in test functions, electronic measuring equipment, support aerospace ground equipment (AGE), and hand tools. Monitors equipment performance to detect and analyze malfunctions.
2.2. Removes, installs, aligns, calibrates, boresights, and checks F-16 avionic systems. Removes and installs line replaceable units, and aligns system. Boresights systems. Removes, installs, and performs operational checks of externally mounted electronic countermeasures equipment. Performs modifications.
2.3. Inspects F-16 avionic systems. Inspects avionic systems to determine operational status. Interprets inspection findings, and determines adequacy of corrective action. Reviews maintenance management publication procedures. Recommends methods to improve equipment performance and maintenance procedures.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electronic, microelectronic, mechanical, gyro, synchro, and indicator principles, theory, and application; electromechanical and electro-optical devices working principles; subsystem tie-in between avionic systems; factors involved in transmitting and receiving within the radio frequency and radar frequency ranges; digital computer logic; aircraft electrical and pneudraulic systems; use, care, and interpretation of testing and measuring devices; principles of motion and power transmission by mechanical and electrical means; and concepts and application of maintenance directives.
3.2. Education. For entry into this specialty, completion of high school with courses in physics and mathematics is desirable.
3.3. Training. For award of AFSC 2A332X, completion of the suffix specific basic avionic systems course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A352A/B/C. Qualification in and possession of AFSC 2A332A/B/C. Also, experience isolating malfunctions, installing line replaceable units, and using AGE necessary to maintain avionic systems.
3.4.2. 2A372. Qualification in and possession of AFSC 2A352A/B/C. Also, experience performing or supervising functions such as malfunction analysis or installing avionic systems line replaceable units.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For award and retention of AFSCs 2A332X/52X/72, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

4. * Specialty Shredouts

Suffix	*Portion of AFS to Which Related*
A	Attack Control
B	Instrument and Flight Control
C	Communication, Navigation, and Penetration Aids

NOTE: Suffixes A, B, and C are applicable to the 1-, 3-, and 5-skill levels only.

AFSC 2A373*, Craftsman **Apprentice AFSC 2A333***
AFSC 2A353*, Journeyman **Helper AFSC 2A313***

TACTICAL AIRCRAFT MAINTENANCE
(Changed 31 Oct 98)

★1. Specialty Summary. Maintains tactical aircraft, support equipment, and forms and records. Performs and supervises flight chief, expediter, crew chief, aero repair, and maintenance support functions. Related DoD Occupational Subgroup: 600.

★2. Duties and Responsibilities:
2.1. Services aircraft. Performs end-of-runway, postflight, preflight, thru-flight, and phase inspections. Advises on problems maintaining, servicing, and inspecting aircraft and related aerospace equipment. Uses technical data to diagnose and solve maintenance problems on aircraft systems. Interprets and advises on maintenance procedures and policies to repair aircraft and related equipment.
2.2. Troubleshoots and maintains aircraft structures, systems, components, and related equipment. Removes and installs aircraft components. Conducts functional tests of repaired components and systems. Adjusts, aligns, and rigs aircraft systems. Supervises and performs aircraft jacking, lifting, and towing operations.
2.3. Inspects aircraft structures, systems, components, and related systems. Supervises and performs aircraft and component inspections. Interprets inspection findings and determines adequacy of corrective actions. Inspects and checks components for clearances, tolerances, proper installation, and operation. Inspects and operates powered and nonpowered aerospace ground equipment. Inspects and identifies aircraft corrosion for prevention and repair. Reviews maintenance forms, aircraft records, automated maintenance data systems, and historical reports to ensure complete documentation. Inventories and maintains aircraft equipment.
2.4. Performs flight chief, production superintendent, expediter, crew chief, aero repair, and maintenance support functions. Coordinates maintenance plans and schedules to meet operational commitments. Supervises and assists in launching and recovering aircraft. Reviews maintenance data collection summaries to determine trends and production effectiveness. Performs crash recovery duties. Performs staff and supervisory management functions.

★3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: principles applying to aircraft systems; concepts and application of maintenance directives and data reporting; using technical data; Air Force supply and deficiency reporting procedures; and proper handling, use, and disposal of hazardous waste and materials.
3.2. Education. For entry into this specialty, completion of high school is desirable with courses in physics, pneudraulics, and electronics.
3.3. Training.
3.3.1. For award of AFSC 2A333X, completion of a suffix specific basic aircraft maintenance course is mandatory.
3.3.2. For award of AFSC 2A373X, completion of a suffix specific craftsman aircraft maintenance course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A353X. Qualification in and possession of AFSC 2A333X. Also, experience in functions such as repairing and maintaining aircraft or related installed equipment.
3.4.2. 2A373X. Qualification in and possession of AFSC 2A353X. Also, experience performing or supervising functions such as installing, inspecting, repairing, or overhauling aircraft structures, systems, and components.
3.5. Other. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*, is mandatory.

4. *Specialty Shredouts:

Suffix	*Portion of AFS to Which Related*
A	F-15
B	F-16/F-117
C	F/EF-111
D	F-4
E	A-10
F	T-1/T-38
G	T-37/OA-37
H	U-2
J	General (Except F-15/F-16)
Z	All Other

NOTE: Shredouts A and B are applicable to the 1-, 3-, 5- and 7-skill levels. Shredouts C, D, E, F, G, H, and Z are applicable to the 1- and 3-skill levels only, and merge to form shredout J at the 5-skill level. Shredout J is applicable only at the 5- and 7-skill levels.

CEM Code 2A300 **Superintendent AFSC 2A490**

AIRCRAFT AVIONICS
(Changed 30 Apr 94)

1. Specialty Summary. Manages maintenance activities engaged in planning, inspecting, and repairing aircraft and support equipment (SE). Related DoD Occupational Subgroup: 102.

2. Duties and Responsibilities:
2.1. Plans and organizes aircraft maintenance activities. Plans, organizes, and manages aircraft and helicopter maintenance, planning, inspection, and repair activities. Analyzes reports and maintenance plans. Coordinates with supply, operations, and other support activities to improve procedures and resolve problems.
2.2. Directs aircraft maintenance activities. Evaluates processes used to inspect, maintain, repair, and service aircraft, helicopters, and SE. Directs operation and modification of standard operating procedures. Directs repair of aircraft, helicopters, associated systems, and SE. Establishes priorities for maintenance and repair functions. Supervises preparing and maintaining records and reports on aircraft and helicopter repair maintenance, inspection, workload, and replacement of parts.
2.3. Inspects and evaluates aircraft maintenance activities. Evaluates maintenance and repair units to determine operational status and to provide assistance in solving maintenance, supply, and personnel problems. Interprets and discusses inspection findings, and recommends actions to correct deficiencies.
2.4. Performs aircraft maintenance management functions. Resolves problems and interprets technical publications for inspecting, maintaining, and modifying aircraft, helicopters, and SE. Ensures funds and resources are projected and managed to optimize maintenance efforts. Ensures submission of deficiency reports.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electrical and mechanical principles; theory of analog and digital electronic principles and solid state devices; interpreting and applying wiring diagrams and schematics relating to electronic circuits; theory and application of servoamplifiers and computers; concepts and application of maintenance directives; using and interpreting logic circuits, signal data flow, component schematics, and other publications; interpreting and use of maintenance data reports; Air Force supply procedures; resource management; and proper handling, use, and disposal of hazardous waste and material.
3.2. Education. Not used.
3.3. Training. Not used.
3.4. Experience. For award of AFSC 2A490, qualification in AFSC 2A471, 2A472 or 2A473 is mandatory. Also, experience is mandatory managing or directing functions such as testing, installing, maintaining, or modifying avionics systems.
3.5. Other. Not used.

AFSC 2A471, Craftsman **Apprentice AFSC 2A431**
AFSC 2A451, Journeyman **Helper AFSC 2A411**

AIRCRAFT GUIDANCE AND CONTROL SYSTEMS
(Changed 30 Apr 94)

1. Specialty Summary. Performs organizational-level maintenance on avionics guidance and control systems. Maintains aircraft avionics guidance and control systems and associated support equipment. Related DoD Occupational Subgroup: 102.

2. Duties and Responsibilities:
2.1. Advises on problems in maintaining aircraft guidance and control systems. Analyzes equipment operating characteristics to determine sources of malfunction. Identifies maintenance problem areas and recommends corrective action. Performs production superintendent, flight chief, expediter, support, and maintenance staff functions. Coordinates maintenance plans to meet operational commitments. Supervises and assists in aircraft launch, recovery, and general ground handling. Reviews automated maintenance summaries to determine trends and production effectiveness.
2.2. Maintains, operates, and modifies aircraft guidance and control systems. Inspects and tests guidance and control systems to locate defective components or interconnections. Diagnoses malfunctions using technical orders, schematics, wiring diagrams, and test equipment. Adjusts, calibrates, and aligns system components.
2.3. Maintains inspection and maintenance data records. Updates operational logs, inspection records, aircraft forms, and automated maintenance data systems. Complies with security directives.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electronic principles including theory of transistors and solid state components, integrated circuits, and digital techniques applied to guidance and control systems; interpreting technical orders, wiring diagrams, and schematic drawings; concepts and application of maintenance directives; and the proper handling, use, and disposal of hazardous waste and materials.
3.2. Education. For entry into this specialty, completion of high school with courses in basic electronics, physics, and mathematics is desirable.
3.3. Training. For award of AFSC 2A431, completion of a basic avionics guidance and control systems course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A451. Qualification in and possession of AFSC 2A431. Also, experience in functions such as maintaining, testing, repairing, and applying the theory of electronics principles to guidance and control systems.
3.4.2. 2A471. Qualification in and possession of AFSC 2A451. Also, experience performing or supervising functions such as installing, inspecting, and repairing avionics guidance and control systems.
3.5. Other. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards,* is mandatory.

AFSC 2A472, Craftsman **Apprentice AFSC 2A432**
AFSC 2A452, Journeyman **Helper AFSC 2A412**

AIRCRAFT COMMUNICATION AND NAVIGATION SYSTEMS

1. Specialty Summary. Performs organizational-level maintenance on avionics communication and navigation systems. Maintains aircraft avionics communication and navigation systems and support equipment. Related DoD Occupational Subgroup: 102.

2. Duties and Responsibilities:
2.1. Advises on problems maintaining aircraft communication and navigation systems. Uses and interprets layout drawings, schematics, logic, and pictorial diagrams to solve maintenance problems. Advises on aligning and calibrating procedures to ensure optimum operating efficiency. Analyzes data received from testing and troubleshooting procedures to determine necessary repair. Identifies maintenance problem areas, and recommends corrective action. Develops methods to improve maintenance efficiency.
2.2. Removes, installs, inspects, maintains and operates aircraft avionics communication and navigation systems. Inspects and tests communication and navigation systems to locate defective components or interconnections. Diagnoses malfunctions using technical orders, schematics, wiring diagrams and test equipment. Removes and replaces faulty system wiring, electrical connectors, antennas, transmission lines, and multiconductor cables. Adjusts, calibrates, and aligns system components.
2.3. Performs production maintenance functions. Coordinates maintenance plans to meet operational commitments. Supervises and assists in launching and recovering aircraft. Performs basic ground handling functions. Maintains and reviews maintenance data collection and inspection records.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electronic principles including theory of transistors and solid-state components, integrated circuits, and digital techniques applied to communication and navigation equipment and systems; interpreting technical orders, wiring diagrams, and schematic drawings; concepts and application of maintenance directives; and proper handling, use and disposal of hazardous waste and material.
3.2. Education. For entry into this specialty, completion of high school with courses in basic electronics, physics and mathematics is desirable.
3.3. Training. For award of AFSC 2A432, completion of a basic avionics communication and navigation course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A452. Qualification in and possession of AFSC 2A432. Also, experience in functions such as aligning, adjusting, maintaining, repairing and applying the theory of electronic principles to communication and navigation systems.
3.4.2. 2A472. Qualification in and possession of AFSC 2A452. Also, experience performing or supervising functions such as installing, inspecting, and repairing aircraft avionics communication and navigation systems.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For award and retention of AFSCs 2A432/52/72, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

AFSC 2A473, Craftsman **Apprentice AFSC 2A433**
AFSC 2A453, Journeyman **Helper AFSC 2A413**

AIRCRAFT COMMAND CONTROL COMMUNICATIONS AND NAVIGATION SYSTEMS
(Changed 30 Apr 94)

1. Specialty Summary. Performs organization and in-flight maintenance on command control communications, cryptographic, computer, navigation, and ancillary systems. Maintains related support equipment (SE). Related DoD Occupational Subgroup: 102.

2. Duties and Responsibilities:
2.1. Analyzes equipment malfunctions and advises on systems problems and deficiencies. Supervises communications and navigation systems operation, maintenance, and inspection. Performs expediter, maintenance staff, and supervisory functions. Coordinates maintenance plans to prevent conflicts with operational commitments. Supervises launch and recovery of aircraft. Reviews maintenance data collection summaries and ensures production efficiency.
2.2. Maintains, operates, and modifies communications and navigation systems. Troubleshoots and repairs receivers, transmitters, digital and voice satellite communications, multiplexing, electronic switching, and radar (doppler, search, and weather) systems, including ancillary equipment. Uses technical data, test and SE, and diagnostic software to isolate equipment malfunctions.
2.3. Maintains inspection and maintenance data records. Updates operational logs, inspection records, aircraft forms, and maintenance data collection system. Performs preflight, in-flight, and post-flight duties. Complies with security directives. Uses and disposes of hazardous material and waste according to environmental guidelines.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electronic and computer fundamentals, solid state devices, numbering systems, and principles of radio frequency transmission and reception applying to airborne satellite, data link, receiver, transmitter, multiplexer, and switching equipment; concepts and application of maintenance directives; wiring and logic diagrams, schematic drawings, and publications; Air Force supply procedures; and environmental standards and proper procedures for handling hazardous materials.
3.2. Education. For entry into this specialty, completion of high school with courses in physics, electronics, and mathematics is desirable.
3.3. Training. For award of AFSC 2A433, completion of a basic aircraft command control communications and navigation systems course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A453. Qualification in and possession of AFSC 2A433. Also, experience in functions such as modifying, operating, and maintaining special purpose communications and navigation systems.
3.4.2. 2A473. Qualification in and possession of AFSC 2A453. Also, experience performing or supervising maintenance actions on command and control special purpose mission systems, and qualification in advance system troubleshooting techniques.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For award and retention of AFSCs 2A433/53/73, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

CEM Code 2A300 **Superintendent AFSC 2A590**

AEROSPACE MAINTENANCE
(Changed 31 Oct 98)

1. Specialty Summary. Manages maintenance and staff activities engaged in maintenance planning, inspecting, repairing, and servicing aircraft, helicopters, and aerospace equipment. Related DoD Occupational Subgroup: 600.

2. Duties and Responsibilities:
2.1. Plans and organizes aircraft maintenance activities. Plans, organizes, and manages maintenance planning, inspection, and repair activities for aircraft, helicopters, and support equipment (SE). Analyzes reports and maintenance plans. Coordinates with supply, operations, and other support activities to improve procedures and resolve problems.
2.2. Directs aircraft maintenance activities. Evaluates processes used to inspect, maintain, repair, and service aircraft, helicopters, and SE. Directs operation and modification of standard operating procedures for maintenance personnel. Directs repair of aircraft, helicopters, associated systems, and SE. Prioritizes maintenance and repair functions. Supervises preparation of records and forms for aircraft and helicopter maintenance.
2.3. Inspects and evaluates aircraft maintenance activities. Evaluates maintenance units to determine operational status, and to provide assistance in solving maintenance, supply, and personnel problems. Interprets inspection findings, and recommends corrective action.
2.4. Performs aircraft maintenance management functions. Resolves problems and interprets publications on inspecting, maintaining, and modifying aircraft, helicopters, and SE. Ensures submission of deficiency reports. Ensures funds and resources are projected to support the maintenance effort, and are managed to optimize mission accomplishment.

★3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electrical and mechanical principles applying to aircraft and helicopter systems and related SE; interpreting and applying wiring diagrams and schematics relating to electrical or mechanical systems; concepts and application of maintenance directives; maintenance data reporting; interpreting and using maintenance data reports and technical orders; Air Force supply procedures; resource management; and proper handling, use, and disposal of hazardous waste and materials.
3.2. Education. Not used.
3.3. Training. Not used.
3.4. Experience. For award of AFSC 2A590, qualification in and possession of AFSC 2A471, 2A472, 2A473, 2A571, 2A572, or 2A573A/B/C/ is mandatory. Also, experience is mandatory managing or directing functions such as inspecting or maintaining aircraft, helicopters, or avionics systems.
3.5. Other. Not used.

AFSC 2A571, Craftsman **Apprentice AFSC 2A531***
AFSC 2A551*, Journeyman **Helper AFSC 2A511***

AEROSPACE MAINTENANCE

1. Specialty Summary. Maintains aircraft, support equipment (SE), and forms and records. Performs production supervisor, flight chief, expediter, crew chief, support, aero repair, and maintenance functions. Related DoD Occupational Subgroup: 600.

2. Duties and Responsibilities:
2.1. Advises on problems maintaining, servicing, and inspecting aircraft and aerospace SE. Uses technical data to diagnose and solve maintenance problems on aircraft systems. Interprets and advises on maintenance procedures and policies to repair aircraft and SE.
2.2. Troubleshoots and maintains aircraft structures, systems, components, and SE. Tests repaired components using mockups and test equipment. Adjusts, aligns, rigs, and calibrates aircraft systems. Performs engine run-up. Accomplishes weight and balance functions. Jacks, tows, and services aircraft.
2.3. Inspects aircraft structures, systems, components, and SE. Supervises and performs aircraft and component inspections. Interprets inspection findings and determines adequacy of corrective actions. Inspects and checks components for clearances, tolerances, proper installation, and operation. Inspects and operates powered and nonpowered aerospace ground equipment. Inspects and identifies aircraft corrosion for prevention and correction. Reviews maintenance forms, aircraft records, and reports to ensure complete documentation. Inventories and maintains alternate mission equipment.
2.4. Performs production supervisor, flight chief, expediter, crew chief, aero repair, support, and maintenance functions. Coordinates maintenance plans to meet operational commitments. Supervises and assists in launching and recovering aircraft. Reviews maintenance data collection summaries to determine trends and production effectiveness. Performs crash recovery duties. Performs staff and supervisory management functions.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: principles applying to aircraft systems; concepts and application of maintenance directives and data reporting; using technical data; Air Force supply procedures; and proper handling, use, and disposal of hazardous waste and materials.
3.2. Education. For entry into this specialty, completion of high school with courses in pneudraulics, physics, and electronics is desirable.
3.3. Training. For award of AFSC 2A531X, completion of a suffix specific basic aerospace maintenance course is mandatory.
3.4. Experience. The following experience is mandatory for award of AFSC indicated:
3.4.1. 2A551X. Qualification in and possession of AFSC 2A531X. Also, experience in functions such as repairing and maintaining aircraft or related installed equipment.
3.4.2. 2A571. Qualification in and possession of AFSC 2A551X. Also, experience performing or supervising functions such as installing, repairing, inspecting, or overhauling aircraft structures, systems, and components.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For award and retention of AFSCs 2A531X/51X/71, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

4. * Specialty Shredouts

Suffix	*Portion of AFS to Which Related*
A	C-9/C-20/C-21/C-22/C-141/T-39/T-43
B	C-12/C-26/C-27/C-130
C	C-5
D	C-17
E	B-1/B-2
F	B-52
G	C-18/C-135/E-3/VC-25/VC-137
H	KC-10/E-4
J	C-5/C-9/C-12/C-17/C-20/C-21/C-22/C-

26/C-27/C-130/C-141/T-39/T-43
K B-1/B-2/B-52
L ..... All C-135/C-18/E-3/E-4/KC-10/VC-25/VC-137

NOTE: Shredouts A, B, C, D, E, F, G, and H are applicable to the 1- and 3-skill levels only. Shredouts J, K, and L are applicable at the 5-skill level only. Shredouts A, B, C, and D merge to form shredout J at the 5-skill level. Shredouts E and F merge at the 5-skill level to form shredout K. Shredouts G and H merge at the 5-skill level to form shredout L. There are no shredouts at the 7-skill level.

AFSC 2A572, Craftsman **Apprentice AFSC 2A532***
AFSC 2A552, Journeyman **Helper AFSC 2A512***

HELICOPTER MAINTENANCE
(Changed 30 Apr 97)

1. Specialty Summary. Performs and supervises helicopter maintenance functions and activities. Inspects, repairs, maintains, and services helicopters and support equipment (SE). Maintains aircraft forms and records. Performs crew chief functions. Related DoD Occupational Subgroup: 600.

2. Duties and Responsibilities:

2.1. Troubleshoots, inspects, repairs, and services helicopter aircraft, systems, and related equipment. Inspects and functionally checks helicopter structures and systems. Checks installed components for proper operation. Adjusts, aligns, and calibrates aircraft systems. Rigs, tracks, and balances rotor systems. Inspects for fuel leaks, corrosion, tire wear, skin damage, and cracks on aircraft. Accomplishes engine maintenance and ground handling tasks. Prepares and maintains inspection and maintenance records. Operates, inspects, and checks serviceability of powered and nonpowered ground SE. Inventories and inspects alternate mission equipment.
2.2. Stores and prepares aircraft for shipment, and performs crash recovery. Prepares aircraft for movement to and from storage. Disassembles helicopters for shipment and reassembles. Removes disabled aircraft. Uses emergency recovery equipment.
2.3. Advises on problems maintaining helicopters and related SE. Uses technical orders to diagnose and solve maintenance problems on airframe and engine related systems. Interprets inspection findings and advises on maintenance procedures to repair aircraft and related equipment.
2.4. Performs staff and supervisory management functions. Coordinates and adjusts individual and unit daily maintenance plans. Supervises and assists in launching and recovering aircraft. Ensures compliance with maintenance management directives. Initiates technical order deficiency and product quality deficiency reports. Reviews maintenance data collection summaries to determine trends, production effectiveness, and areas requiring corrective action.

3. Specialty Qualifications:

3.1. Knowledge. Knowledge is mandatory of: supply procedures; electrical theory; mechanical principles applying to aircraft; flight theory; hydraulic principles; concepts and application of maintenance directives; maintenance data reporting; technical order use; and proper handling, use, and disposal of hazardous waste and materials.
3.2. Education. For entry into this specialty, completion of high school is desirable, with courses in mechanics, physics, hydraulics, and electronics.
3.3. Training. For award of AFSC 2A532X, completion of a suffix specific basic helicopter maintenance course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A552. Qualification in and possession of AFSC 2A532X. Also, experience in functions such as repairing and maintaining helicopter aircraft and systems, and powered and nonpowered ground SE.
3.4.2. 2A572. Qualification in and possession of AFSC 2A552. Also, experience performing or supervising functions such as installing, repairing, inspecting, maintaining, or overhauling helicopter aircraft and systems, and powered and nonpowered ground SE.
3.5. Other. For entry into this specialty, normal color vision as defined in AFMAN 48-123, *Medical Examination and Standards*, is mandatory.

4. * Specialty Shredouts

Suffix	*Portion of AFS to Which Related*
A	MH-53
B	H-60
C	H-1

NOTE: Suffixes are applicable to the 1- and 3-skill levels only.

AFSC 2A573*, Craftsman **Apprentice AFSC 2A533***
AFSC 2A553*,Journeyman **Helper AFSC 2A513***

BOMBER AVIONICS SYSTEMS
(Changed 30 Apr 98)

1. Specialty Summary. Analyzes malfunctions, inspects, removes, maintains, and installs bomber integrated avionics systems at organizational and limited intermediate levels. Related DoD Occupational Subgroup: 198.

2. Duties and Responsibilities:
2.1. Operates bomber avionics systems. Analyzes equipment operating characteristics to isolate malfunctions in offensive avionics systems (OAS) and radar, central integrated test systems (CITS), on board test systems (OBTS), multiplexed data buss systems, video recording systems, electro-optical viewing systems (EVS), inertial navigation systems (INS), primary and secondary flight controls, automatic flight control, engine instrumentation, center of gravity management, central air data systems, electronic warfare (EW) systems, communication, and dependent positioning navigation systems.
2.2. Maintains bomber avionics systems. Removes, installs, checks and repairs bomber avionics systems and line replaceable units (LRU). Diagnoses malfunctions using technical orders, schematics, wiring diagrams, CITS, OBTS, and other test equipment systems. Removes, replaces, and repairs faulty system wiring, electrical connectors, antennas, transmission lines, and multiconductor cables. Modifies bomber avionics systems LRUs according to technical publications. Post entries in maintenance and inspection records. Performs LRU systems alignments to meet specifications. Loads ground maintenance and flight software. Performs off-equipment maintenance on selected avionics LRUs and maintains peculiar support equipment (SE).
2.3. Inspects and evaluates aircraft maintenance activities. Inspects bomber avionics systems. Inspects and verifies operational status and configuration of avionics systems and software. Records and ensures validity of entries into maintenance data collection and inspection systems. Resolves and assists units in solving maintenance and supply problems. Interprets and recommends corrective action to inspection findings.
2.4. Plans, organizes and directs aircraft maintenance activities. Establishes methods and performance standards. Analyzes reports and maintenance plans. Coordinates with supply and other activities to improve procedures and resolve problem. Directs operation and modification of standard operating procedures. Establishes priorities. Evaluates activities for compliance with directives.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: interpreting and applying mechanical, wiring, and electronic circuit diagrams; electronic, microelectronic, data bus, and mechanical principles theory and application; gyros, synchros, indicators, memory storage devices, antennas, servomechanisms, torquing amplifiers, and differential gearing theory and application; electromechanical and electro-optical devices; radar, radio frequency communication, dependent navigation aides, inertial and radar navigation, electronic warfare, automatic flight controls, instruments, multiplexing, and digital computer systems working principles; subsystem tie-in between integrated avionics systems; using and interpreting testing and measuring devices; principles of motion and power transmission by mechanical and electrical means; and concepts and application of maintenance directives.
3.2. Education. For entry into this specialty, completion of high school with courses in physics and mathematics is desirable.
3.3. Training.
3.3.1. For award of AFSC 2A533X, completion of the applicable suffix basic avionics systems course is mandatory.
3.3.2. For award of AFSC 2A573X, completion of the craftsman course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A553X. Qualification in and possession of AFSC 2A533X. Also, experience isolating malfunctions, removing and installing LRUs, and use of test and ground SE.
3.4.2. 2A573X. Qualification in and possession of AFSC 2A553X. Also, experience performing or supervising functions such as analyzing and isolating integrated avionics systems malfunctions and using test equipment.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For award and retention of AFSCs 2A533X/53X/73X, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

4. *Specialty Shredouts

Suffix	*Portion of AFS to Which Related*
A	Offensive Avionics Systems, CITS, OBTS, and Doppler Radar Systems
B	Instrument and Flight Control Computer
C	Communication, Navigation, and Defensive Avionics Systems

CEM Code 2A600
AFSC 2A691, Superintendent
AFSC 2A671*, Craftsman

Journeyman AFSC 2A651*
Apprentice AFSC 2A631*
Helper AFSC 2A611*

AEROSPACE PROPULSION
(Changed 31 Oct 97)

1. Specialty Summary. Inspects, maintains, modifies, tests, and repairs propellers, turboprop and turboshaft engines, jet engines, small gas turbine engines, and engine ground support equipment (SE). Manages aerospace propulsion functions and activities. Related DOD Occupational Subgroup: 601.

2. Duties and Responsibilities:
2.1. Plans, organizes, and directs aerospace propulsion maintenance activities. Interprets and implements directives and publications pertaining to maintenance functions, including environmentally safe maintenance practices. Determines resource requirements, including facilities, equipment, and supplies. Inspects and evaluates maintenance activities.
2.2. Advises, performs troubleshooting, and determines repair procedures on aircraft engines. Diagnoses and repairs malfunctions using technical publications. Solves maintenance problems by studying drawings, wiring and schematic diagrams, technical instructions, and analyzing operating characteristics of aircraft engines and propellers. Inspects, certifies, and approves completed maintenance actions.
2.3. Removes, installs, inspects, repairs, and modifies engines, engine modules and components, and propellers and propeller components. Disassembles and assembles engines and propellers adhering to prescribed procedures. Prepares engines and propellers for installation, storage, or transportation. Tests components using bench mockups and test equipment. Installs and removes engines on test stands, and operates, evaluates, and performs test stand functions on engines. Accomplishes operator maintenance on test stands. Inspects and maintains engine ground SE. Operates and performs operator inspections on related SE. Selects, uses, and cares for special tools, hand tools, and test equipment. Uses and disposes of hazardous waste and materials.
2.4. Analyzes, interprets, and recommends maintenance actions based on unscheduled engine removals and engine monitoring system data. Coordinates with the base engine manager to analyze scheduled engine removals; recommends forecast actions to the weekly or monthly maintenance schedules.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: mechanical, hydromechanical, electrical, and pneudraulic principles applying to jet and turboprop engines, and propellers; oil analysis principles; wear metal criteria and guidelines; concepts and application of maintenance directives; using and interpreting diagrams and technical publications; and the proper handling, use, and disposal of hazardous waste and materials.
3.2. Education. For entry into this specialty, completion of high school with courses in general science, mechanics, or mathematics is desirable.
3.3. Training. For award of AFSC 2A631B/C/D or E, completion of a basic, suffix specific, aerospace propulsion maintenance course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A651A. Qualification in and possession of AFSC 2A631C, D, or E. Also, experience in functions such as installing, maintaining, or repairing aerospace aircraft jet engines.
3.4.2. 2A651B. Qualification in and possession of AFSC 2A631B. Also, experience in functions such as installing, maintaining, or repairing aircraft turboprop or turboshaft propulsion engines or propellers.
3.4.3. 2A671X. Qualification in and possession of AFSC 2A651X. Also, experience performing or supervising functions involving installation, repair, testing, or modification of engines or propellers.
3.4.3. 2A691. Qualification in and possession of AFSC 2A671X. Also, experience managing or directing repair activities for aerospace aircraft engines, propellers, and associated maintenance functions.
3.5. Other. For entry into this specialty, normal color vision as defined in AFMAN 48-123, *Medical Examination and Standards* is mandatory.

4. * Specialty Shredouts

Suffix	*Portion of AFS to Which Related*
A	Jet Engines
B	Turboprop and Turboshaft Propulsion
C	TF33 Jet Engines
D	F100 Jet Engines
E	F110 Jet Engines

***NOTE*:** Shredout A is applicable to the 5- and 7-skill levels only. Shredout B is applicable to the 1-, 3-, 5-, and 7-skill levels. Shredouts C, D, and E are applicable at the 1- and 3-skill levels only. Shredouts C, D, and E merge to form shredout A at the 5-skill level.

CEM Code 2A600
AFSC 2A692, Superintendent
AFSC 2A672, Craftsman

Journeyman AFSC 2A652
Apprentice AFSC 2A632
Helper AFSC 2A612

AEROSPACE GROUND EQUIPMENT
(Changed 30 Apr 98)

1. Specialty Summary. Maintains aerospace ground equipment (AGE) to support aircraft systems or subsystems. Manages AGE functions and activities. Related DoD Occupational Subgroup: 602.

2. Duties and Responsibilities:
2.1. Performs scheduled and unscheduled maintenance on AGE. Inspects, tests, and operates AGE to determine equipment serviceability and proper operation. Diagnoses mechanical and electronic circuitry malfunctions using visual and auditory senses, test equipment, and technical publications. Removes, disassembles, repairs, cleans, treats for corrosion, assembles, and re-installs AGE accessories and components. Stencils and marks AGE. Services equipment with fuel, oil, coolant, water, hydraulic fluid, and air. Operates, cleans, inspects, and services AGE towing vehicles. Maintains vehicle forms. Provides dispatch service for AGE, including positioning equipment to support aircraft maintenance and flying operations.
2.2. Diagnoses malfunctions and repairs AGE. Advises and performs troubleshooting on AGE before assigning repair action. Inspects and approves completed maintenance actions. Prepares AGE for storage and mobility deployment. Solves repair problems by studying drawings, wiring diagrams and schematics, and technical publications. Uses automated maintenance system to monitor maintenance trends, analyze equipment requirements, maintain equipment records, and document maintenance actions. Analyzes and repairs ground support equipment using conventional and digital multimeters, voltmeters, ohmmeters, frequency counters, oscilloscopes, circuit card testers, transistor testers, and hand tools. Maintains external fuel and grounding systems. Stores, handles, uses, and disposes of hazardous material and waste according to environmental standards.
2.3. Plans and organizes AGE maintenance activities. Establishes production controls and standards. Interprets and implements policy directives and instructions pertaining to maintenance, including environmentally safe maintenance practices. Determines resource requirements, including facilities, training, equipment, and supplies. Inspects maintenance activities, evaluates resource use, and recommends corrective actions. Determines equipment serviceability criteria where it does not exist. Encourages quality Air Force activities.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: principles of electricity, electronics, general mechanics, heating, refrigeration, pneumatics, hydraulics, and reciprocating and turbine engines; troubleshooting, inspecting, repairing, and modifying equipment; use of automated maintenance systems; application of maintenance management techniques; interpretation of maintenance directives, technical publications, drawings, wiring diagrams and schematics; and proper identification, handling, use, and disposal of hazardous waste materials.
3.2. Education. For entry into this specialty, completion of high school with courses in general science and industrial arts is desirable.
3.3. Training. For award of AFSC 2A632, completion of a basic AGE training course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A652. Qualification in and possession of AFSC 2A632. Also, experience in functions such as inspecting, modifying, or repairing AGE.
3.4.2. 2A672. Qualification in and possession of AFSC 2A652. Also, experience performing or supervising functions such as inspecting, modifying, repairing, or troubleshooting AGE.
3.4.3. 2A692. Qualification in and possession of AFSC 2A672. Also, experience managing AGE functions and activities.
3.5. Other. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*, is mandatory.

CEM CODE 2A600 **Superintendent AFSC 2A690**

AIRCRAFT SYSTEMS
(Changed 30 Apr 97)

1. Specialty Summary. Manages maintenance functions in aircrew egress systems and aircraft fuel, in-flight refueling, hydraulic, electrical and environmental systems. Related DoD Occupational Subgroup: 602.

2. Duties and Responsibilities:
2.1. Plans and organizes aircraft systems maintenance activities. Interprets and implements maintenance directives and publications, including environmentally safe maintenance practices. Establishes production controls and standards. Analyzes maintenance reports of egress, fuel, inflight refueling, hydraulic, and electrical and environmental aircraft systems. Determines resource requirements. Coordinates with supply, operations, and other activities to improve procedures and resolve problems.
2.2. Directs, controls, and performs aircraft systems maintenance activities. Directs maintenance personnel employed in removing, disassembling, inspecting, repairing, reassembling, installing, testing, and modifying egress, fuel, hydraulic, in-flight refueling, and electrical and environmental aircraft systems and components. Solves maintenance problems with aircraft systems and related equipment.
2.3. Inspects and evaluates aircraft systems maintenance work and activities. Evaluates work for compliance with directives, policies, and standards. Inspects maintenance activities and evaluates resource use. Interprets inspection findings and recommends corrective action.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: mechanical principles; electrical, fuel, hydraulics, egress, and pressure systems; concepts and application of maintenance directives; interpreting wiring and schematic diagrams, blueprints, and technical publications; and proper handling, use, and disposal of hazardous waste and materials.
3.2. Education. Not used.
3.3. Training. Not used.
3.4. Experience. For award of AFSC 2A690, qualification in and possession of AFSC 2A673, 2A674, 2A675, or 2A676 is mandatory. Also, experience is mandatory directing functions such as installing, maintaining, repairing, overhauling, or modifying aircrew egress systems; aircraft fuel and in-flight refueling systems; aircraft and equipment hydraulic systems; or aircraft and equipment electrical and environmental systems.
3.5. Other. Not used.

AFSC 2A673, Craftsman **Apprentice AFSC 2A633**
AFSC 2A653, Journeyman **Helper AFSC 2A613**

AIRCREW EGRESS SYSTEMS
(Changed 31 Oct 94)

1. Specialty Summary. Maintains aircraft egress systems including ejection seats, canopies, hatches, and modules; explosive components; subsystems; and related support equipment (SE). Related DoD Occupational Subgroup: 602.

2. Duties and Responsibilities:
2.1. Advises on and solves installation, maintenance, and repair problems by studying schematic and technical publications. Diagnoses malfunctions and recommends corrective action. Implements maintenance and safety policies for egress systems.
2.2. Performs scheduled and unscheduled maintenance on egress systems. Removes, installs, repairs, and modifies egress systems. Ensures egress explosive cartridge activated devices (CAD) and pressure activated devices (PAD) are safe and disarmed prior to performing maintenance. Performs operational and functional tests of egress systems, subsystems, and components using test equipment and test kits. Applies corrosion control procedures to escape systems and related components. Operates and maintains related SE. Uses the core automated maintenance system to monitor maintenance trends, analyze equipment requirements, maintain equipment records, and document maintenance actions and time change database.
2.3. Performs integrity inspections of the escape system. Inspects egress systems, subsystems, and components for safety, security, and serviceability. Inspects and determines serviceability of CAD and PAD devices based on shelf and service life limits. Uses and disposes of hazardous waste and materials according to environmental standards.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of mechanical, pneumatic, and electrical principles applying to aircrew egress systems; concepts and application of applicable maintenance directives; and using and interpreting schematic drawings, and technical publications.
3.2. Education. For entry into this specialty, completion of high school with courses in general science or mathematics is desirable.
3.3. Training. For award of AFSC 2A633, completion of a basic aircrew egress system maintenance course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A653. Qualification in and possession of AFSC 2A633. Also, experience in functions such as removing, inspecting, installing, repairing, and modifying aircrew egress systems.
3.4.2. 2A673. Qualification in and possession of AFSC 2A653. Also, experience performing or supervising functions involved in maintaining and inspecting egress systems and subsystems.
3.5. Other. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*, is mandatory.

AFSC 2A674, Craftsman **Apprentice AFSC 2A634**
AFSC 2A654, Journeyman **Helper AFSC 2A614**

AIRCRAFT FUEL SYSTEMS
(Changed 30 Apr 95)

1. Specialty Summary. Removes, repairs, inspects, installs, and modifies aircraft fuel systems including integral fuel and water tanks, bladder cells, and external tanks. Maintains associated hardware and equipment. Related DoD Occupational Subgroup: 602.

2. Duties and Responsibilities:
2.1. Advises on aircraft fuel systems removal, repair, and installation maintenance procedures and policies. Diagnoses fuel system and component malfunctions. Recommends corrective actions and resolves problems using technical publications and analytic techniques.
2.2. Performs maintenance on aircraft fuel tanks and cells. Removes access panels, and depuddles, purges, repairs, and tests fuel tanks and cells. Performs confined space entry procedures. Removes, repairs, and replaces malfunctioning components. Prepares aircraft surfaces, and applies sealants, adhesives, and associated chemicals.
2.3. Inspects aircraft fuel systems maintenance activities. Cleans fuel cells and tanks, and inspects for foreign objects, corrosion, cell deterioration, and fungus. Stores, handles, uses, and disposes of hazardous material and waste.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: internal hardware such as valves, interconnects, lines, gauges, controls, pumps, and other attachments; sealing materials; sheet metal parts; rubber properties and organic sealing compound applications; layout drawing use; technical publications; concepts and applications of maintenance directives; work policies and procedures; and proper handling, use, and disposal of hazardous waste and material.
3.2. Education. For entry into this specialty, completion of high school with courses in general science or physics is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 2A634. Completion of a basic aircraft fuel systems maintenance course.
3.3.2. 2A674. Completion of the advanced aircraft fuel systems course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A654. Qualification in and possession of AFSC 2A634. Also, experience in functions such as installing, repairing, or modifying aircraft fuel systems and related components.
3.4.2. 2A674. Qualification in and possession of AFSC 2A654. Also, experience supervising functions such as installing, repairing, or modifying aircraft fuel systems.
3.5. Other. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*, is mandatory.

AFSC 2A675, Craftsman **Apprentice AFSC 2A635**
AFSC 2A655, Journeyman **Helper AFSC 2A615**

AIRCRAFT HYDRAULIC SYSTEMS
(Changed 30 Apr 95)

1. Specialty Summary. Troubleshoots, removes, repairs, overhauls, inspects, and installs aircraft hydraulic systems and components, including support equipment (SE). Related DoD Occupational Subgroup: 602.

2. Duties and Responsibilities:
2.1. Advises on problems maintaining aircraft hydraulic systems and SE. Determines maintenance procedures and performance characteristics using technical publications. Diagnoses malfunctions and recommends corrective action.
2.2. Performs maintenance on aircraft hydraulic systems. Troubleshoots, removes, repairs, overhauls, replaces, adjusts, and tests malfunctioning components.
2.3. Inspects aircraft hydraulic systems, components and SE. Performs system operational checks. Stores, handles, uses, and disposes of hazardous material and waste according to environmental standards.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: hydraulic, pneumatic, electrical, and mechanical principles applying to aircraft and support equipment; hydraulic systems; concepts and applications of maintenance directives; using and interpreting schematics, wiring diagrams, and technical publications; and proper handling, use, and disposal of hazardous waste and materials.
3.2. Education. For entry into this specialty, completion of high school with courses in hydraulics or general science is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 2A635. Completion of a basic aircraft hydraulic systems maintenance course.
3.3.2. 2A675. Completion the advanced aircraft hydraulic systems course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A655. Qualification in and possession of AFSC 2A635. Also, experience in functions such as repairing hydraulic, mechanical, and electrical systems, components, and SE.
3.4.2. 2A675. Qualification in and possession of AFSC 2A655. Also, experience performing or supervising maintenance functions in repair of aircraft hydraulic, mechanical, and electrical systems, components, and SE.
3.5. Other. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*, is mandatory.

AFSC 2A676, Craftsman **Apprentice AFSC 2A636**
AFSC 2A656, Journeyman **Helper AFSC 2A616**

AIRCRAFT ELECTRICAL AND ENVIRONMENTAL SYSTEMS
(Changed 30 Apr 95)

1. Specialty Summary. Performs and supervises aircraft electrical and environmental (E & E) functions and activities. Troubleshoots, inspects, removes, installs, repairs, modifies, overhauls, and operates aircraft E & E systems, components, and associated support equipment. Related DoD Occupational Subgroup: 602.

2. Duties and Responsibilities:
2.1. Inspects, troubleshoots, and maintains aircraft E & E systems, subsystems, components, and associated test equipment. E & E on-equipment systems include direct and alternating current; gas turbine compressors and auxiliary power units; landing gear, anti-skid, and nose wheel steering; electronic engine control, ignition, and starting; lighting; master caution and warning; take-off warning; flight control; cargo door and cargo delivery equipment; non-electro static application windows; anti-icing; fire and overheat warning; fire extinguishing and suppression; fuel control; liquid cooling; air conditioning, bleed air, cabin pressurization, and auxiliary pressurization; oxygen; and aircraft utility systems.
2.2. Performs off-equipment maintenance on E & E system components and associated test equipment. Included are control, protection, caution, and warning panels; lighting equipment; frequency and load controls; anti-icing controllers; inverters; voltage regulators; nose wheel steering and anti-skid amplifiers; generators and integrated drive generators; actuators, relays, motors, and valves; lighting equipment; fire and overheat panels; fire extinguishing equipment; aircraft batteries; and special equipment testers. Performs cryogenic maintenance on mobile aircraft servicing units. Maintains electrical wiring and connectors. Uses electrical, electronic, pneumatic, and other test and support equipment. Maintains compressed gas equipment.
2.3. Inspects and evaluates aircraft E & E maintenance activities. Determines operational status of assigned assets. Interprets inspection findings and determines corrective actions. Ensures compliance with technical publications and directives.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electrical, electronic, and mechanical principles relating to E & E systems; concepts and application of maintenance directives; meaning of symbols used in wiring diagrams, blueprints, and schematics; and proper handling, use, and disposal of hazardous waste and materials.
3.2. Education. For entry into this specialty, completion of high school with courses in basic electronics, mathematics, general science, and mechanics is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 2A636. Completion of a basic aircraft E & E systems maintenance course.
3.3.2. 2A676. Completion of the advanced aircraft E & E systems maintenance course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A656. Qualification in and possession of AFSC 2A636. Also, experience maintaining electrical, electronic, and environmental systems.
3.4.2. 2A676. Qualification in and possession of AFSC 2A656. Also, experience performing or supervising E & E maintenance.
3.5. Other. For entry into this specialty, normal color vision as defined in AFMAN 48-123, *Medical Examination and Standards*, is mandatory.

CEM Code 2A600 **Superintendent AFSC 2A790**

AIRCRAFT FABRICATION
(Changed 31 Oct 98)

1. Specialty Summary. Manages activities to accomplish aircraft structural maintenance, metals technology, survival equipment maintenance, and nondestructive inspection. Related DoD Occupational Subgroup: 700.

★2. Duties and Responsibilities:
2.1. Plans, organizes, and directs aircraft fabrication maintenance activities. Interprets and implements directives and publications pertaining to fabrication and airframe maintenance, including environmentally safe practices. Establishes production controls and standards. Analyzes maintenance management reports. Determines resource requirements, including personnel, equipment, facilities, and supplies. Coordinates with other activities to improve procedures and resolve problems.
2.2. Directs maintenance personnel employed in removing, disassembling, inspecting, repairing, treating corrosion, reassembling, installing, testing, and modifying aircraft structural components, survival equipment, and local manufacture activities. Solves fabrication, airframe, maintenance, local manufacture, and support equipment repair problems.
2.3. Inspects and evaluates fabrication maintenance activities. Evaluates completed work to determine operational status and compliance with directives, policies, and work standards. Manages resources, interprets inspection findings, and recommends corrective action. Manages the oil analysis program.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: aircraft structural maintenance, metals technology, survival equipment, and nondestructive inspection methods; characteristics and identification of aerospace and nonaerospace materials; concepts and application of maintenance directives; maintenance data reporting; and proper handling, storage, use, and disposal of hazardous waste and materials.
3.2. Education. Not used.
3.3. Training. Not used.
3.4. Experience. For award of AFSC 2A790, qualification in and possession of AFSC 2A771/72/73 or 74 is mandatory. Also, experience is mandatory managing structural maintenance, metals technology, survival equipment, or nondestructive inspection specialties and functions.
3.5. Other. Not used.

AFSC 2A771, Craftsman **Apprentice AFSC 2A731**
AFSC 2A751, Journeyman **Helper AFSC 2A711**

AIRCRAFT METALS TECHNOLOGY
(Changed 30 Apr 98)

1. Specialty Summary. Designs, welds, heat treats, fabricates, and machines precision tools, components, and assemblies for aerospace weapon systems and related support equipment (SE). Related DoD Occupational Subgroup: 700.

2. Duties and Responsibilities:
2.1. Advises on metals machining, welding, designing, and production problems. Designs, manufactures, or modifies special precision tools, gauges, dies, and fixtures to facilitate metal working operations. Performs metals technology shop calculations such as determining cutting speeds and settings, welding processes, and preheat and postheat requirements. Welds, brazes, solders, and heat treats metals. Uses manual and computer numerical controlled (CNC) metal working machines, mills, and lathes to manufacture and repair cams, gears, slots, and keyways for aircraft components and SE. Writes programs for CNC machines using manual and Computer Aided Design-Computer Aided Manufacturing (CAD-CAM) methods. Checks completed components and determines serviceability in accordance with drawings and specifications.
2.2. Disassembles, assembles, and fits component parts using machine screws, bolts, rivets, press fits, and welding techniques. Uses metal working equipment, tools, and supplies to produce surface finishing specifications for components. Extracts broken or damaged hardware. Checks components for wear tolerances using precision measuring devices.
2.3. Maintains and inspects hand tools and metal working machinery. Performs operator maintenance and service inspections on shop equipment and tools. Ensures lock out and tag out procedures are accomplished prior to maintenance on all equipment. Uses and disposes of hazardous waste and materials according to environmental standards.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: metal repair and fabrication processes; composition of metals and machinable materials; weld specifications; metal tempering; forging; mechanical drawings; use of precision measuring devices and tools; metal fabricating by oxyacetylene, metallic arc, and inert gas shielded arc; operation and capacity of metal working and welding equipment; use and fabrication of layout and fixture devices; safety codes and practices regarding equipment and supplies; hazards of explosive gasses, hazardous rays, and fumes; and proper handling, use, and disposal of hazardous waste and materials.
3.2. Education. For entry into this specialty, completion of high school with courses in shop mathematics, metal working, or mechanical drawing is desirable.
3.3. Training.
3.3.1. For award of AFSC 2A731, completion of a basic aircraft metals technology course is mandatory.
3.3.2. For award of AFSC 2A771, completion of the craftsman aircraft metals technology course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A751. Qualification in and possession of AFSC 2A731. Also, experience in functions such as gas and electric welding, boring, milling, shaping, grinding metal, or using precision measuring devices.
3.4.2. 2A771. Qualification in and possession of AFSC 2A751. Also, experience performing or supervising functions dealing with welding, using precision measuring devices, and machining.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry, award, and retention of AFSCs 2A711/31/51/71, normal depth perception as defined in AFI 48-123, *Medical Examination and Standards*.

AFSC 2A772, Craftsman **Apprentice AFSC 2A732**
AFSC 2A752, Journeyman **Helper AFSC 2A712**

NONDESTRUCTIVE INSPECTION
(Changed 30 Apr 95)

1. Specialty Summary. Inspects aerospace weapon systems components and support equipment for structural integrity using nondestructive inspection methods and performs fluid analysis. Related DoD Occupational Subgroup: 760.

2. Duties and Responsibilities:
2.1. Determines test method, and prepares fluids and parts for nondestructive inspection. Interprets nondestructive inspection test results, and provides information about defects to repair center. Analyzes wear metal content on engine lubricating oil and other fluids, and recommends corrective action. Establishes radiation areas for radiographic operations. Computes and monitors personal exposure areas for radiographic operations, and monitors personnel exposure data.
2.2. Performs nondestructive inspection on structures, components, and systems. Detects flaws such as cracks, delaminations, voids, processing defects, and heat damage using penetrant, eddy current, magnetic particle, radiographic, optical, and ultrasonic test equipment. Determines metallurgical information of components according to alloy, temper, conductivity, and associated factors.
2.3. Operates, maintains, and inspects nondestructive equipment. Performs operator maintenance and service inspections on shop equipment and tools. Ensures lock out and tag out procedures are accomplished prior to maintenance on equipment. Performs silver recovery functions. Handles and disposes of hazardous waste and materials.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: characteristics of metals identification; wear metals identification and content; metal discontinuity and flaw detection; operation and maintenance of nondestructive test and oil analysis equipment; safety codes and practices; radiological safety and radiation monitoring procedures; technical orders and directives; and proper handling, use, and disposal of hazardous waste and materials.
3.2. Education. For entry into this specialty, completion of high school with courses in mathematics, chemistry, industrial technology, physics, and shop is desirable. Also, completion of computer knowledge courses is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 2A732. Completion of a basic nondestructive inspection course.
3.3.2. 2A772. Completion of an advanced nondestructive inspection course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A752. Qualification in and possession of AFSC 2A732. Also, experience flaw detection process controls, equipment calibration and maintenance, safety directives, and hazardous waste programs.
3.4.2. 2A772. Qualification in and possession of AFSC 2A752. Also, experience supervising functions such as those involved in a nondestructive inspection laboratory.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*, is mandatory.
3.5.2. For duty in and award of this AFSC, minimum age is 18 years.

AFSC 2A773, Craftsman **Apprentice AFSC 2A733**
AFSC 2A753, Journeyman **Helper AFSC 2A713**

AIRCRAFT STRUCTURAL MAINTENANCE
(Changed 31 Oct 98)

★1. Specialty Summary. Designs, repairs, modifies and fabricates aircraft, metal, plastic, composite, advanced composite, low observables, and bonded structural parts and components. Applies preservative treatments to aircraft, missiles, and support equipment (SE). Related DoD Occupational Subgroup: 603.

★2. Duties and Responsibilities:
2.1. Assembles structural parts and components to meet requirements for preserving structural integrity and low observable qualities. Assesses damage to aircraft structural components and low observable coatings. Advises on structural and low observable repair, modification, and corrosion protection treatment with respect to original strength, weight, and contour to maintain structural and low observable integrity. Ensures aircraft component balance is maintained. Assembles repairs using special fasteners and adhesives. Checks repairs for serviceability according to specifications and technical publications. Manufactures jigs, fixtures, forms, and molds.
2.2. Paints aircraft, missiles, and support equipment (SE). Identifies, removes, and treats corrosion using mechanical and chemical procedures. Applies corrosion protective and low observable coatings. Applies aircraft paint schemes and markings.
2.3. Uses metalworking equipment and tools to form, cut, bend, and fasten replacement or repair parts to damaged structures and components. Fabricates, repairs, and assembles tubing and cable assemblies for aerospace weapon systems and SE. Maintains and inspects tools and equipment. Performs operator maintenance and service inspections on shop equipment and tools. Ensures lockout and tagout procedures are accomplished prior to performing shop equipment maintenance. Stores, handles, and disposes of hazardous waste and materials according to environmental standards.
2.4. Inspects structures and components and determines operational status. Interprets inspection findings, and determines corrective action adequacy. Posts entries and maintains maintenance and inspection records. Recommends methods to improve equipment performance and maintenance procedures. Uses automated maintenance systems. Inputs, validates, and analyzes data processed to automated systems. Clears and closes out completed maintenance discrepancies in automated maintenance systems.

★3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: aircraft construction features; identification and characteristics of aerospace materials; repair of metal, tubing, cable, plastic, fiberglass, bonded honeycomb, and composite structural components; shop drawing and sheetmetal layout techniques; shop mathematics; corrosion identification, removal, repair, and prevention; cleaning of metals; application of protective coatings, low observable materials, and markings; proper use, mixing, and storage of acids, solvents, alcohol, caustics, primers, and paints; and proper handling and disposal of hazardous waste and materials.
3.2. Education. For entry into this specialty, completion of high school with courses in mathematics, algebra, chemistry, physics, mechanical drawing, and metal working is desirable.
3.3. Training.
3.3.1. For award of AFSC 2A733, completion of a basic aircraft structural maintenance course is mandatory.
3.3.2. For award of AFSC 2A773, completion of a craftsman aircraft structural maintenance course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A753. Qualification in and possession of AFSC 2A733. Also, experience in functions such as fabricating, repairing, assembling, or installing aircraft metals, plastics, fiberglass, composites, or honeycomb parts; or corrosion identification, removal, and applying coatings and markings.
3.4.2. 2A773. Qualification in and possession of AFSC 2A753. Also, experience supervising functions dealing with corrosion identification, prevention, and repair; applying protective coatings and markings; or fabricating, assembling, and repairing metal, fiberglass, composites, honeycomb, and plastics.
3.5. Other. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*, is mandatory.

AFSC 2A774, Craftsman **Apprentice AFSC 2A734**
AFSC 2A754, Journeyman **Helper AFSC 2A714**

SURVIVAL EQUIPMENT
(Changed 30 Apr 95)

1. Specialty Summary. Disassembles, assembles, inspects, fabricates, cleans, repairs, and packs aerospace weapon system components such as protective clothing, upholstery, thermal radiation barriers, protective covers, flotation equipment, emergency evacuation systems, and parachutes. Related DoD Occupational Subgroup: 760.

2. Duties and Responsibilities:
2.1. Plans and schedules parachute and fabric activities. Establishes performance standards, improves work methods, and advises on inspection, repair, and repack of aircrew survival equipment. Checks repaired and repacked survival equipment and determines serviceability based on required specifications and technical publications. Evaluates problems and determines feasibility of repair or replacement related to inspecting and repairing fabric, rubber equipment, and parachutes. Evaluates work orders for local manufacturing, plans layout, and fabrication of new items.
2.2. Disassembles, assembles, inspects, cleans, fabricates, repairs, and packs fabric and rubber components, including protective clothing, upholstery, thermal radiation barriers, protective covers, flotation equipment, emergency evacuation systems, and parachutes such as deceleration, cargo, and personnel. Installs, removes, inspects, tests, and sets manual and automatic rip cord release opening devices. Stores, handles, and inspects pyrotechnic items.
2.3. Operates, maintains, and inspects survival equipment machinery, test equipment, and tools. Performs operator maintenance and service inspections on shop equipment. Stores, handles, uses, and disposes of hazardous waste and materials based on environmental standards.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: parachute construction; temperature and humidity affects on parachutes and other fabrics; characteristics of rubberized items; solvent, heat, and pressure affects on rubber; and proper handling, use, and disposal of hazardous waste, materials, and pyrotechnics.
3.2. Education. For entry into this specialty, completion of high school with courses in shop mechanics is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 2A734. Completion of a basic fabrication and parachute course.
3.3.2. 2A774. Completion of the advanced fabrication and parachute course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A754. Qualification in and possession of AFSC 2A734. Also, experience maintaining fabric and rubber items, flotation equipment, protective clothing, aircraft upholstery, and parachutes.
3.4.2. 2A774. Qualification in and possession of AFSC 2A754. Also, experience performing or supervising functions such as maintaining fabric and rubber items, flotation devices, protective clothing, aircraft upholstery, and parachutes.

Attachment 12

COMMUNICATIONS - ELECTRONICS SYSTEMS CAREER FIELD (2E)

INTRODUCTION

The Communications-Electronics Systems Career Field encompasses the functions of installing, modifying, maintaining, repairing, and overhauling ground television equipment; ground weather equipment; air traffic control, aircraft control and warning, missile warning, and automatic tracking radar equipment; simulator and training systems; ground radio equipment, including carrier repeater, microwave, tropospheric scatter, flight facilities, and light and heavy, fixed and mobile radio equipment and space communications systems equipment; high-speed general and special purpose data processing equipment; automatic communications and cryptographic machine systems; teletypewriter and teleautograph equipment; electromechanical cryptographic equipment; space systems command and control; and associated electronic test equipment. Included in this field are the functions of systems control, automatic tracking equipment operation, display systems operation, and associated communications-electronic equipment for which an operator position is not provided.

Excluded from this career field are the functions of operating radio and radar equipment, with the exceptions indicated in paragraph 1, and maintaining and overhauling electronic components peculiar to the Missile Electronic Maintenance Career Field, the Avionics Systems Career Field, or the Training Devices Career Field. The following is a complete listing of AFSCs for theCommunications—Electronics Systems Career Field.

COMMUNICATIONS - ELECTRONICS - SYSTEMS (2E)											
Input or Helper Level		**Apprentice or Semiskilled Level**		**Journeyman or Skilled Level**		**Craftsman or Advanced Level**		**Superintendent Level**		**Chief Enlisted Manager Level**	
2E011	Ground Radar Systems	2E031	Ground Radar Systems	2E051	Ground Radar Systems	2E071	Ground Radar Systems	2E091	Ground Radar Systems	2E000	Comm-Elect Systems Mgr
2E111	Satellite & Wideband Comm Equip	2E131	Satellite & Wideband Comm Equip	2E151	Satellite & Wideband Comm Equip	2E171	Satellite & Wideband Comm Equip	2E190	Comm Systems		
2E112	Meterorologi-cal & Nav Sys	2E132	Meterorologi-cal & Nav Sys	2E152	Meterorologi-cal & Nav Sys	2E172	Meterorological & Nav Sys				
2E113	Ground Radio Comm	2E133	Ground Radio Comm	2E153	Ground Radio Comm	2E173	Ground Radio Comm				
2E114	Visual Imagery & Intrusion Detection Sys	2E134	Visual Imagery & Intrusion Detection Sys	2E154	Visual Imagery & Intrusion Detection Sys	2E174	Visual Imagery & Intrusion Detection Sys				
2E211	Elect Comp & Swg Systems	2E231	Elect Comp & Swg Systems	2E251	Elect Comp & Swg Systems	2E271	Elect Comp & Swg Systems	2E291	Elect Comp & Swg Systems		
A	AN/TYQ-23(V)2 and AN/FYQ-93	A	AN/TYQ-23(V)2 and AN/FYQ-93	A	AN/TYQ-23(V)2 and AN/FYQ-93						
B	Abn Computer Maintenance	B	Abn Computer Maintenance	B	Abn Computer Maintenance						
C	Strategic Communica-tions Systems	C	Strategic Communica-tions Systems	C	Strategic Communica-tions Systems						
D	AN/FYQ-93 Joint Surveillance System	D	AN/FYQ-93 Joint Surveillance System	D	AN/FYQ-93 Joint Surveillance System						
2E311	Secure Comm Systems	2E331	Secure Comm Systems	2E351	Secure Comm Systems	2E371	Secure Comm Systems	2E391	Secure Comm Systems		

COMMUNICATIONS - ELECTRONICS - SYSTEMS (2E)											
Input or Helper Level		**Apprentice or Semiskilled Level**		**Journeyman or Skilled Level**		**Craftsman or Advanced Level**		**Superintendent Level**		**Chief Enlisted Manager Level**	
2E411	Space Systems	2E431	Space Systems	2E451	Space Systems	2E471	Space Systems	2E491	Space Systems		
2E611	Comm & Ant Systems	2E631	Comm & Ant Systems	2E651	Comm & Ant Systems	2E671	Comm & Ant Systems	2E690	Tele & Distr Comm Systems		
2E612	Comm Cable Systems	2E632	Comm Cable Systems	2E652	Comm Cable Systems	2E672	Comm Cable Systems			2E000	Comm-Elect Systems Mgr
2E613	Telephone Systems	2E633	Telephone Systems	2E653	Telephone Systems	2E673	Telephone Systems				
2E811	Instrumenta-tion & Telemetry Systems	2E831	Instrumenta-tion & Telemetry Systems	2E851	Instrumenta-tion & Telemetry Systems	2E871	Instrumentation & Telemetry Systems	2E891	Instrumentatio n & Telemetry Systems	2E800	Instrumenta-tion & Telemetry Systems

CEM Code 2E000
AFSC 2E091, Superintendent
AFSC 2E071, Craftsman

Journeyman AFSC 2E051
Apprentice AFSC 2E031
Helper AFSC 2E011

GROUND RADAR SYSTEMS
(Changed 30 Apr 95)

1. Specialty Summary. Installs, maintains, and repairs fixed or mobile air traffic control, weather, ground aircraft control and warning, and automatic tracking radar systems. Also included are electronic combat systems and associated closed circuit television display and signal analysis equipment, related radar operator training devices, radar beacon systems, aircraft identification equipment, remoting systems, video mappers, computerized processors, and communications subsystems. Operates and relocates automatic tracking radar and electronic combat systems; signal analysis equipment; and related support and communications equipment. Uses electronic test equipment. Related DoD Occupational Subgroup: 103.

2. Duties and Responsibilities:

2.1. Manages and directs ground radar activities. Directs operation of automatic tracking and electronic combat systems. Establishes production controls and standards. Prepares reports on maintaining, installing, repairing, removing, and siting all types of ground radar systems. Ensures operations and maintenance economies by improving work methods and procedures. Inspects and evaluates ground radar activities. Serves on or directs maintenance inspection teams to evaluate maintenance programs. Performs research and development projects.

2.2. Evaluates and resolves problems encountered during siting, installing, repairing, and overhauling ground radar systems. Uses layout drawings, schematics, and pictorial diagrams to solve maintenance problems. Analyzes construction and operating characteristics of equipment to determine source of malfunction. Plans, schedules, implements, and installs ground radar systems. Interprets maintenance and installation policy and procedures. Assembles, connects, modifies, and adjusts subassemblies such as antennas, transmitters, receivers, processors, indicator groups, and ancillary systems. Tests installed equipment for proper component assembly and compliance with technical orders. Places in operation and calibrates, tunes, and aligns subassemblies to maximize performance. Disassembles, relocates, assembles, and connects radar systems. Inspects and tests equipment for serviceability before and after relocation. Performs preventive maintenance inspections.

2.3. Repairs, overhauls, and modifies, ground radar systems. Isolates malfunctions. Repairs subassemblies, including antennas, transmitters, receivers, operator training devices, radar beacon systems, remoting systems, video mappers, display systems, and associated communications systems and related equipment. Tests repaired subassemblies. Accomplishes organizational and intermediate level equipment modifications. Assembles, installs, and repairs antenna systems, transmission lines, and waveguides. Performs corrosion control.

2.4. Establishes requirements for tools, support equipment, supplies, and technical documents. Establishes work standards, methods, and controls for functions such as periodic inspections, operational testing, and equipment repair. Identifies maintenance problem areas and initiates corrective action. Develops methods to improve maintenance effectiveness and efficiency. Interprets inspection findings, and determines adequacy of corrective actions. Completes maintenance data collection forms and ensures maintenance records are complete and accurate. Recommends changes to improve equipment performance or maintenance practices. Evaluates justification and practicality of recommended improvements to equipment performance and maintenance procedures. Develops and enforces safety standards and practices for ground radar maintenance activities. Coordinates with other agencies to ensure systems support requirements.

2.5. Manages automatic tracking radar or electronic combat systems activities. Operates automatic tracking radar or electronic combat systems. Ensures proper identification and tracking of aircraft. Computes aircraft position and bomb ballistics to determine impact point. Observes equipment performance while conducting automatic tracking radar or electronic combat operations. Presents ground based threats to stimulate aircrew response for analysis during electronic combat exercises. Uses equipment to evaluate aircraft and aircrew performance. Records aircraft scoring data.

3. Specialty Qualifications:

3.1. Knowledge. Knowledge is mandatory of: electronic principles and digital techniques, including transistor and solid-state component theory that applies to ground radar systems; maintenance data processing systems; wiring, circuit, and schematic diagrams and technical orders; Air Force maintenance and supply procedures; operating procedures of systems such as automatic tracking radar, electronic combat systems, related aircraft identification equipment, and communications equipment.
3.2. Education. For entry into this specialty, completion of high school with courses in physics and mathematics is desirable.
3.3. Training. For award of AFSC 2E031, completion of a basic ground radar maintenance course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. AFSC 2E051. Qualification in and possession of AFSC 2E031. Also, experience is mandatory using test equipment and interpreting test results, and in functions such as testing, calibrating, or repairing ground radar systems and associated communications and identification equipment; or operating automatic tracking radar or electronic combat systems.
3.4.2. AFSC 2E071. Qualification in and possession of AFSC 2E051. Also, experience is mandatory using test equipment and interpreting test results, and performing or supervising functions such as siting, installing, repairing, overhauling, or modifying ground radar systems and associated communications and identification equipment; or operating automatic tracking radar or electronic combat systems.
3.4.3. AFSC 2E091. Qualification in and possession of AFSC 2E071. Also experience is mandatory managing activities that install, maintain, repair, modify, or operate ground radar systems.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty:
3.5.1.1. Normal color vision as defined in AFMAN 48-123, *Medical Examination and Standards*.
3.5.1.2. Qualification to operate government vehicles according to AFMAN 24-309, *Vehicle Operations.*
3.5.2. For award and retention of AFSCs 2E031/51/71/91, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

CEM Code 2E000 **Superintendent AFSC 2E190**

COMMUNICATIONS SYSTEMS
(Changed 30 Apr 98)

1. Specialty Summary. Manages and directs communications systems maintenance facilities and resources. Included are functions of installing, maintaining, repairing, overhauling, deploying, and modifying. Systems and equipment include ground radio, meteorological and navigation, combat camera, imagery, video, television, satellite, intrusion detection, and microwave. Related DoD Occupational Subgroup: 101.

2. Duties and Responsibilities:
2.1. Plans and organizes maintenance activities. Prepares and analyzes reports encompassing siting, deploying, maintaining, installing, repairing, and removing communications systems, combat camera equipment, imagery systems, and related equipment. Included are ground radio equipment; navigation and meteorological systems; satellite and microwave communications systems, video, television studio, and intrusion detection systems; combat camera; and imagery systems. Coordinates activities and resolves problems.
2.2. Directs maintenance activities. Checks systems and equipment for proper siting, installation, and serviceability. Directs personnel employed in siting, deploying, inspecting, adjusting, removing, replacing, and repairing communications systems and related equipment. Directs overhaul and repair of communications systems, combat camera equipment, imagery systems, and related equipment. Ensures work standards are maintained. Determines extent and economy of repair, including disposition of malfunctioning equipment.
2.3. Inspects and evaluates maintenance activities. Interprets findings, and recommends or initiates corrective action. Serves on or directs inspection teams to evaluate maintenance activities. Discusses inspection findings. Maintains liaison with users to ensure adequate services are being provided.
2.4. Supervises maintenance functions. Resolves problems installing, maintaining, repairing, and overhauling systems and equipment. Establishes local maintenance procedures and policies. Performs research and development of new systems and equipment.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electronics principles theory and its application to ground radio, meteorological and navigation, combat camera, imagery, video, television, intrusion detection, and satellite and microwave communications facilities, systems, and equipment and their interoperability; communications and computer elements of a typical air base; and interpreting wiring and logic diagrams, blueprints, and technical orders.
3.2. Education. Not used.
3.3. Training. Not used.
3.4. Experience. For award of AFSC 2E190, qualification in and possession of AFSC 2E171/72/73/74 is mandatory. Also, experience is mandatory managing or directing functions such as installing, maintaining, repairing, or modifying the various systems and related equipment of the feeder specialties.
3.5. Other. For award and retention of AFSC 2E190/00, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program,* is mandatory.

AFSC 2E171, Craftsman **Apprentice AFSC 2E131**
AFSC 2E151, Journeyman **Helper AFSC 2E111**

SATELLITE AND WIDEBAND COMMUNICATIONS EQUIPMENT

1. Specialty Summary. Installs, maintains, modifies, and operates satellite and wideband communications systems. Included are tropospheric scatter and line-of-sight radios, earth terminals, multiplex, and signaling and termination equipment. Configures earth terminal equipment. Establishes and maintains communications link with distant earth terminals. Operates earth terminal control console, and monitors system performance indicators. Implements operational directives. Manages wideband and earth terminal facilities or activities. Related DoD Occupational Subgroup 101.

2. Duties and Responsibilities:
2.1. Installs and checks operation of wideband and earth terminal communications systems. Assembles, programs, adjusts, and secures system components. Reviews technical instructions, plans, and installation drawings to install wideband and earth terminal equipment and systems. Ensures conformance to standard installation practices. Measures, adjusts, and operationally tests equipment and systems. Establishes, manages configuration, and maintains communications links via satellite transponders. Ensures high quality circuits for long distance information relay. Employs orbiting communication satellite, line of sight, and tropospheric scatter techniques. Conducts tests to restore and maintain systems. Assesses systems and aligns and adjusts equipment for optimum system performance. Tests wire communications equipment such as teletypewriters, and telephone carrier and repeater equipment. Uses anti-jam equipment and techniques to neutralize effects of communication jamming. Performs and manages equipment alignment and calibration to satisfy system operational requirements.
2.2. Deploys and activates transportable wideband and earth terminal systems. Interprets deployment orders. Participates in site survey to ensure equipment location meets operational requirements. Establishes communications links and interconnects communication facilities.
2.3. Manages preventive maintenance. Refers to circuit and cable diagrams to trace circuits. Evaluates equipment performance using test equipment. Performs preventive maintenance, self-verification, and loop tests of ground station and technical control equipment. Operates, inspects, troubleshoots, adjusts, aligns, and cleans equipment and systems.
2.4. Performs and manages repairs on wideband and earth terminal equipment. Removes, repairs, reassembles, reconnects, and performs operational checks. Restore systems to serviceable condition. Isolates, repairs, or replaces electronic and electromechanical equipment.
2.5. Manages maintenance activities. Establishes requirements for tools, equipment, and technical documents. Establishes work standards, methods, and controls. Reviews, evaluates, and resolves deficiencies. Ensures maintenance data collection forms and inspection and maintenance records are completed and accurate. Records information in equipment performance logs. Evaluates recommended improvements to equipment performance and maintenance procedures. Develops and enforces safety standards for satellite and wideband communications maintenance activities.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: theory of electronics including tubes, transistors, microminiature components, solid state devices, fiberoptics, parametric amplifiers, waveguide components, traveling wave tubes, klystrons, and low-noise amplifiers; principles of computers, cryogenics, spread spectrum techniques, satellite tracking, and servo drive mechanisms; interpreting publications, blueprints, wiring and logic diagrams, and schematics; communications theory; principles of fixed and transportable wideband and earth terminal communications systems and equipment, and their operational procedures; satellite orbital mechanics; data analysis procedures; test equipment and circuit analysis; principles of multiplexing, analog to digital conversion, and digital data transmission; networks associated with multichannel equipment; installing and testing practices; atomic frequency generating devices; voice and record communication equipment including manual and semiautomatic teletypewriters operation; and Defense Communications Agency technical and satellite control and testing procedures.
3.2. Education. For entry into this specialty, completion of high school with courses in algebra, geometry, trigonometry, and physics is desirable.
3.3. Training. For award of AFSC 2E131, completion of a basic satellite and wideband communications systems equipment course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2E151. Qualification in and possession of AFSC 2E131. Also, experience in functions such as installing, maintaining, repairing, modifying or operating wideband and earth terminal communications systems.

3.4.2. 2E171. Qualification in and possession of AFSC 2E151. Also, experience performing or supervising functions such as installing, maintaining, repairing, modifying, or operating wideband and earth terminal communications systems.

3.5. Other. The following are mandatory as indicated:

3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.

3.5.2. For award and retention of AFSCs 2E131/51/71, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

AFSC 2E172, Craftsman **Apprentice AFSC 2E132**
AFSC 2E152, Journeyman **Helper AFSC 2E112**

METEOROLOGICAL AND NAVIGATION SYSTEMS
(Changed 31 Oct 95)

1. Specialty Summary. Installs, removes, relocates, modifies, deploys, and maintains fixed and mobile meteorological and navigation systems. Accomplishes flight inspection duties. Analyzes equipment performance trends. Supervises meteorological and navigation systems maintenance activities. Related DoD Occupational Subgroup: 102.

2. Duties and Responsibilities:
2.1. Supervises meteorological and navigation systems maintenance activities. Oversees work in progress and reviews completed repairs for sound maintenance practices. Establishes requirements for maintenance and support equipment, tools, and spare parts. Requisitions, accounts for, and turns in supplies and material. Recommends equipment repair, replacement, or depot overhaul. Certifies facilities after repair actions or flight inspections. Interprets inspection findings and determines adequacy of corrective action. Reviews and ensures compliance with maintenance management publications and procedures. Develops and enforces safety standards for meteorological and navigation activities.
2.2. Resolves technical problems and improves maintenance methods and techniques. Interprets technical specifications and provides guidance. Solves technical problems requiring interpretation of schematic, logic, and wiring diagrams.
2.3. Installs, removes, and relocates meteorological and navigation systems. Studies system characteristics, local terrain, and planned base facilities and requirements. Determines equipment position based on plans, diagrams, and specifications. Checks and inventories equipment and project materials for serviceability. Assembles, connects, and wires components, assemblies, and antenna systems. Performs operational tests, and adjusts and aligns equipment. Completes commissioning flight inspections. Places systems in operation.
2.4. Prepares equipment for deployment. Deploys, sets up, and activates transportable meteorological and navigation systems. Completes flight inspections. Places systems in operation.
2.5. Maintains meteorological and navigation systems. Uses specialized test equipment and software controlled diagnostics to isolate malfunctions. Repairs mechanical and electrical assemblies and subassemblies. Tunes, aligns, and adjusts equipment. Completes flight inspections. Cleans and lubricates equipment. Performs corrosion control. Modifies equipment. Completes performance tests and evaluates results to ensure proper system operation. Initiates action to correct unsatisfactory equipment performance trends.
2.6. Maintains inspection and maintenance records. Posts entries on maintenance and inspection records. Records and reviews meter readings, test results, and historical data in equipment performance logs. Completes and reviews maintenance data collection and equipment status reporting forms. Evaluates and recommends methods to improve technical data, system performance, and maintenance procedures.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: discrete and integrated electronic components and schematic diagram and logic symbols; electronic principles; microprocessors; data processing; mathematics principles required to solve electronic formulas; Boolean algebra theory and number systems; analog and digital electronic circuits; advanced troubleshooting techniques; principles of meteorological and navigation systems maintenance; use of technical data and blueprints; system block, data flow, schematic, logic, and interconnecting wiring diagrams; principles and use of test equipment and diagnostic systems; and advanced soldering techniques.
3.2. Education. For entry into this specialty, completion of high school with courses in physics and mathematics and a basic knowledge of computers is desirable.
3.3. Training Completion of the following training is mandatory for award of the AFSC indicated:
3.3.1. 2E132. A basic meteorological and navigation systems course.
3.3.2. 2E172. The communications-electronics career advancement course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2E152. Qualification in and possession of AFSC 2E132. Also, experience in functions such as installing, testing, aligning, repairing, flight inspecting, and removing meteorological and navigation systems.
3.4.2. 2E172. Qualification in and possession of AFSC 2E152. Also, experience performing or supervising functions such as installing, testing, aligning, repairing, flight inspecting, and removing meteorological and navigation systems.

3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty:
3.5.1.1. Normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.1.2. Qualification to operate a government vehicle according to AFMAN 24-301, *Vehicle Operations*.
3.5.2. For entry, award, and retention of these AFSCs, freedom from fear of heights.
3.5.3. For award and retention of AFSCs 2E132/52/72, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

AFSC 2E173, Craftsman **Apprentice AFSC 2E133**
AFSC 2E153, Journeyman **Helper AFSC 2E113**

GROUND RADIO COMMUNICATIONS
(Changed 31 Oct 95)

1. Specialty Summary. Installs, maintains, overhauls, repairs, and modifies fixed, mobile, and transportable transmitters, receivers, transceivers, and related equipment. Included are amplitude modulation, frequency modulation, single sideband, and independent sideband radio systems and equipment for point-to-point and ground-to-air communications; facsimile receivers; low frequency, high frequency, very high frequency, and ultra high frequency radio systems; radio frequency amplifiers; recorders; keying and signal devices; generation and display equipment; and base radio systems. Related DoD Occupational Subgroup: 101.

2. Duties and Responsibilities:
2.1. Supervises ground radio maintenance activities. Oversees work in progress and reviews completed repairs for sound maintenance practices. Establishes requirements for maintenance equipment, support equipment, tools, and spare parts. Requisitions, accounts for, and turns in supplies and material. Interprets inspection findings and determines adequacy of corrective action. Reviews and ensures compliance with maintenance management publications and procedures. Administers land mobile radio (LMR) program and ensures compliance with provisions of LMR contracts. Identifies maintenance problem areas and recommends corrective action. Recommends methods to improve equipment performance and maintenance procedures. Evaluates justification and practicability of proposed modifications. Develops and enforces safety standards for ground radio maintenance activities.
2.2. Inspects ground radio communications activities. Determines equipment operational status. Serves on teams to evaluate ground radio activities. Interprets inspection findings submitted by other inspecting activities, and initiates corrective action. Determines adequacy of corrective action. Checks installed and repaired components for compliance with technical publications.
2.3. Resolves installation, repair, overhaul, and modification problems associated with ground radio communications equipment. Uses layout drawings, schematics, and pictorial diagrams to solve maintenance problems. Analyzes construction and operating characteristics of equipment to determine source of malfunction. Performs intricate alignment and calibration procedures to ensure maximum operating efficiency. Determines repair procedures necessary to correct defective equipment.
2.4. Installs ground radio communications equipment. Consults layout drawings to ensure equipment is properly positioned. Checks equipment for serviceability prior to installation. Assembles, connects, secures, and interconnects components such as transmitters, power supplies, and antenna assemblies. Tests installed equipment for proper assembly of components and compliance with technical orders. Places in operation and tunes, adjusts, and aligns components to obtain maximum operating efficiency.
2.5. Deploys and activates mobile and transportable ground radio communications equipment. Refers to plans and equipment specifications to conduct site and equipment surveys, and establishes equipment systems interface. Unpacks, inspects, and positions communications equipment; erects antennas; and interconnects communications facilities.
2.6. Performs preventive maintenance on ground radio communications systems and related equipment. Inspects equipment at specified intervals to determine operational status. Replaces defective components. Performs operational checks.
2.7. Repairs, overhauls, and modifies ground radio communications and related equipment. Isolates malfunctions using system checking procedures, required test equipment, analyzing voltage and waveform measurements, schematic diagrams, and equipment operating characteristics. Repairs equipment, including transmitters, receivers and transceivers, and radio teletype and facsimile devices. Tunes and adjusts ground radio components. Adjusts, aligns, and calibrates equipment for maximum operating efficiency. Fabricates and connects various types of antenna systems and transmission lines. Tests repaired components using bench mockups and related test equipment. Performs corrosion control.
2.8. Maintains inspection and maintenance records. Posts entries on maintenance and inspection records. Records meter readings and other pertinent data in equipment logs. Completes maintenance data collection forms.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electricity and radio theory, including transistors, solid-state components, and digital techniques applying to ground radio communications and related equipment maintenance; and interpretation of management information data, technical orders, blueprints, wiring diagrams, and schematic drawings.
3.2. Education. For entry into this specialty, completion of high school with courses in physics and mathematics is desirable.
3.3. Training. Completion of the following training is mandatory for award of the AFSC indicated:
3.3.1. 2E133. A basic ground radio communications equipment maintenance course.
3.3.2. 2E173. The communications-electronics career advancement course.

3.4. Experience. The following experience is mandatory for award of the AFSC indicated:

3.4.1. 2E153. Qualification in and possession of AFSC 2E133. Also, experience in functions such as; testing, tuning, adjusting, maintaining, or repairing ground radio communications and related equipment, and using specialized test equipment.

3.4.2. 2E173. Qualification in and possession of AFSC 2E153. Also, experience supervising functions such as siting, installing, repairing, overhauling, or modifying ground radio equipment, and using test equipment.

3.5. Other. The following are mandatory as indicated:

3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.

3.5.2. For award and retention of AFSCs 2E133/53/73, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

AFSC 2E174, Craftsman **Apprentice AFSC 2E134**
AFSC 2E154, Journeyman **Helper AFSC 2E114**

VISUAL IMAGERY AND INTRUSION DETECTION SYSTEMS
(Changed 30 Apr 98)

1. Specialty Summary. Installs, performs operational checks, inspects, troubleshoots, repairs, overhauls, calibrates, modifies, tests, and analyzes performance of television equipment; cable head-end; audio, radiated, and auxiliary broadcast equipment; fixed and mobile combat camera and other imagery related equipment; and intrusion detection systems. Monitors and directs performance checks of television and intrusion detection systems. Ensures continuous acceptable systems performance. Manages television, imagery, or intrusion detection system facilities. Related DoD Occupational Subgroup: 191.

2. Duties and Responsibilities:
2.1. Installs and checks operation on television, imagery, and intrusion detection systems and equipment. Assembles, positions, interconnects, and adjusts system components and subassemblies. Measures, adjusts, and operationally tests equipment and systems. Performs preventive maintenance and ensures performance standards.
2.2. Repairs and modifies equipment and systems. Troubleshoots, repairs, and replaces components. Aligns television, imagery, and intrusion detection equipment. Included are cameras, transmitters, receivers, monitors, video tape recorders, audio and video projection equipment, sensors, annunciators, assessment systems, projectors, film processing and printing equipment, electronic imaging and video equipment, and related support items for combat camera and deployable weapon systems, and peculiar test equipment. Ensures acceptable broadcast quality transmission and reliable system operation. Ensures proper assembly; installation; and electro-optical adjustment of mechanical, electrical, and optical equipment. Installs equipment, and services and adjusts equipment and systems. Identifies corrosion problems and accomplishes corrective measures. Lubricates and cleans equipment and components.
2.3. Inspects television, imagery, and intrusion detection systems and equipment. Maintains inspection and maintenance records. Inspects, adjusts, and aligns equipment and systems. Ensures maximum operating efficiency. Posts entries in maintenance and inspection records. Maintains equipment performance logs. Completes maintenance data collection forms. Analyzes maintenance data to determine unfavorable trends or conditions.
2.4. Supervises, plans, and organizes maintenance activities. Establishes requirements for tools, equipment, and technical documents. Establishes work standards, methods, and controls. Reviews, evaluates, and resolves deficiencies. Prepares and analyzes reports. Ensures maintenance data, and inspection and maintenance records are complete and accurate. Evaluates recommended improvements to equipment performance and maintenance procedures. Develops and enforces safety standards and practices. Inspects maintenance activities to determine operational status and solve problems. Reviews inspection findings and recommends corrective action. Performs quality control functions. Resolves equipment installation, repair, overhaul, calibration, and modification problems. Coordinates with production agencies.
2.5. Plans, schedules, and implements installation of television and intrusion detection systems and equipment.
2.6. Prepares deployable facilities and equipment for transportation and employment. Deploys, sets-up, and maintains deployed facilities and equipment.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electronic, transmission, infrared and thermal imagery theories; solid state components; digital techniques; microprocessors; optical and mechanical principles; imagery equipment; installation and testing practices; test equipment; wiring and logic diagrams; circuit schematics; and maintenance and supply procedures.
3.2. Education. For entry into this specialty, completion of high school with courses in algebra, geometry, trigonometry, and physics is desirable.
3.3. Training. The following is mandatory for award of the AFSC indicated:
3.3.1. 2E134. Completion of a basic visual imagery and intrusion detection systems maintenance course.
3.3.2. 2E174. Completion of the communications-electronics career advancement course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2E154. Qualification in and possession of AFSC 2E134. Also, experience in functions such as installing, testing, aligning, adjusting, or repairing television, imagery, and intrusion detection equipment and systems.
3.4.2. 2E174. Qualification in and possession of AFSC 2E154. Also, experience performing or supervising functions such as sitting, installing, repairing, overhauling, or modifying television, imagery, or intrusion detection equipment and systems.

3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For award and retention of AFSCs 2E134/54/74, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

CEM Code 2E000
AFSC 2E291, Superintendent
AFSC 2E271, Craftsman

Journeyman AFSC 2E251*
Apprentice AFSC 2E231*
Helper AFSC 2E211*

ELECTRONIC COMPUTER AND SWITCHING SYSTEMS
(Changed 30 Apr 97)

1. Specialty Summary. Manages and directs the installation, maintenance, repair, overhaul, and modification of mobile and fixed high speed general and special purpose computer and switching systems, and missile control communications systems. Related DoD Occupational Subgroup: 150.

2. Duties and Responsibilities:
2.1. Plans, organizes, and directs maintenance activities. Plans most economical operation by improving work methods and procedures. Ensures equipment serviceability and completeness before and after installation. Advises and assists programmers and operators on techniques for maximum system or equipment efficiency. Determines extent and economy of repair for malfunctioning equipment. Ensures compliance with technical manuals, regulations, and work standards. Interprets survey findings, and prescribes corrective action. Serves on or directs inspection teams organized to evaluate base or command maintenance programs. Recommends methods, techniques, and procedures to overcome maintenance difficulties and to improve spare parts provisioning. Manages or performs research and development projects for electronic computers, switching systems, data processing equipment, and missile control communications.
2.2. Installs electronic computer and switching systems and missile control communications equipment. Checks equipment for serviceability prior to installation. Assembles, connects, and interwires components of data transmission, processing, and display equipment. Conducts detailed tests of installed equipment for proper component assembly and compliance with technical orders. Places in operation and adjusts, aligns, and calibrates components to obtain maximum efficiency. Performs corrosion control.
2.3. Performs preventive maintenance. Inspects equipment to determine status. Adjusts or replaces defective parts. Uses prescribed operational testing procedures. Evaluates equipment performance to ensure system is functioning properly.
2.4. Repairs and modifies electronic computer, switching systems, and missile control communications equipment. Establishes priorities and schedules repair actions. Isolates malfunctions using operational troubleshooting and testing techniques, logic diagrams and equations, voltage and waveform measurements, and other tests requiring specialized electronic test equipment. Repairs unserviceable electronic computer switching and associated data transmitting, processing, and display equipment. Tests repaired components using bench mockups and related test equipment. Calibrates and aligns system components according to technical orders and handbooks, and local procedures. Repairs missile control communications components. Devises alignment and calibration procedures. Develops repair procedures. Evaluates and recommends methods to improve equipment performance and maintenance procedures. Accomplishes prescribed and authorized modifications.
2.5. Maintains inspection and maintenance records. Posts entries on maintenance and inspection records. Records pertinent data in equipment performance logs. Completes maintenance data collection forms.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electronic principles, including integrated and transistor circuits; pulsing techniques, shift registers, counters, buffers, logic gates, and flip-flops; capabilities, limitations, operation, and functional use of electronic test equipment; binary, octal, and hexadecimal numbering systems; basic computer programming techniques; writing diagnostic test routines for locating failures; interpreting technical orders, wiring diagrams, and schematic drawings; and Air Force supply procedures.
3.2. Education. For entry into this specialty, completion of high school with courses in physics and mathematics is desirable.
3.3. Training. For award AFSC 2E231/A/B/C/D, completion of a basic electronic computer or switching system or suffix specific maintenance course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2E251/A/B/C/D. Qualification in and possession of AFSC 2E231/A/B/C/D. Also, experience is mandatory in functions such as installing, repairing, testing, or modifying electronic computer or switching systems equipment or missile control communications systems; using electronic test equipment; applying broadband, highly sensitive oscilloscopes for circuit analysis; or proper methods of triggering or synchronizing oscilloscopes in order to examine elusive single or transient pulses.
3.4.2. 2E271. Qualification in and possession of AFSC 2E251/A/B/C/D. Also, experience is mandatory performing or supervising functions such as writing diagnostic test routines for locating failures; installing, repairing, overhauling, or

modifying high speed electronic computer and switching systems and associated equipment; using and interpreting related test equipment; or applying broadband, highly sensitive oscilloscopes to examine transient pulses.

3.4.3. 2E291. Qualification in and possession of AFSC 2E271. Also, experience is mandatory managing functions such as writing diagnostic test routines for locating failures, maintaining, overhauling, modifying, and repairing high speed general purpose and special purpose electronic computer and switching systems equipment.

3.5. Other: The following are mandatory as indicated:

3.5.1. For entry into this specialty:

3.5.1.1. Normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.

3.5.1.2. Qualification to operate a government vehicle according to AFMAN 24-309, *Vehicle Operations*.

3.5.2. For award and retention of AFSCs 2E231/A/B/C/D, 2E251/A/B/C/D, 2E271, or 2E291 eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

4. *Specialty Shredouts:

Suffix	Portion of AFS to Which Related
A	AN/TYQ-23(V)2 Modular Control Equipment (MCE)
B	Airborne Computer Maintenance
C	Strategic Communications Systems
D	AN/FYQ-93 Joint Surveillance System (JSS)

CEM Code 2E000
AFSC 2E391, Superintendent
AFSC 2E371, Craftsman
Journeyman AFSC 2E351
Apprentice AFSC 2E331
Helper AFSC 2E311

SECURE COMMUNICATIONS SYSTEMS
(Changed 31 Oct 95)

1. Specialty Summary. Manages secure communications maintenance facilities and activities. Installs, maintains, inspects, tests, repairs, modifies, and safeguards fixed and mobile secure communications equipment and systems. Related DoD Occupational Subgroup: 160.

2. Duties and Responsibilities:
2.1. Plans and directs secure communication activities. Determines requirements for space, equipment, tools, and test equipment necessary to install and maintain secure communication equipment, systems and facilities. Establishes work standards, methods, and controls for functions such as periodic inspections, operational testing, and component repair. Establishes production control and performance standards. Determines equipment necessary to provide required service. Reviews programs and monitors planned communication systems installation. Observes personnel performance to form teams based on skills and experience. Inspects and evaluates communications facilities and activities. Determines quality of maintenance. Recommends corrective action. Initiates actions to correct recurring outages.
2.2. Plans and schedules installation of secure and nonsecure communications systems. Installs and checks operation of secure and nonsecure communications systems and cryptographic equipment. Assembles, positions, secures interconnects, programs, measures, adjusts, and operationally tests equipment and systems.
2.3. Maintains, inspects, and tests secure and nonsecure communications systems and cryptographic equipment. Coordinates with agencies such as telephone companies and contractors to conduct tests of systems components and assemblies to isolate faults. Removes, repairs, reassembles, reconnects, and performs operational checks to restore systems to serviceable condition. Inspects, cleans, and lubricates equipment and systems. Troubleshoots, aligns, and adjusts equipment and systems. Documents maintenance actions.
2.4. Repairs and modifies secure and nonsecure communications systems and cryptographic equipment. Isolates, repairs, and replaces faulty components in electronic, electromechanical, and cryptographic equipment. Repairs systems and components when adjustment or replacement is not sufficient to correct malfunction. Modifies equipment and systems complying with National Security Agency instructions or time compliance technical orders.
2.5. Manages and applies operations and communications security and safety programs. Ensures compliance with operations security procedures. Applies communications security programs to include physical, cryptographic, transmission, and emission security. Develops and ensures compliance with safety standards and regulations.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: communications systems and equipment; fundamentals of electricity and basic theory of electronics; solid state components; digital techniques; microprocessors; communication terminals and cryptographic equipment; installing and testing practices; use of test equipment, wiring and logic diagrams, and circuit schematics; and maintenance and supply procedures.
3.2. Education. For entry into this specialty, completion of high school with courses in physics and algebra is desirable.
3.3. Training. Completion of the following training is mandatory for award of the AFSC indicated:
3.3.1. 2E331. A secure communications systems maintenance course.
3.3.2. 2E173. The communications-electronics career advancement course.
3.3.3. To perform maintenance on cryptographic equipment, completion of training according to AFI 21-109, *Communications Security, Equipment Maintenance, and Maintenance Training.*
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2E351. Qualification in and possession of AFSC 2E331. Also, experience in functions such as installing, maintaining, and repairing secure and nonsecure communications systems and cryptographic equipment.
3.4.2. 2E371. Qualification in and possession of AFSC 2E351. Also, experience performing or supervising functions such as installing, maintaining, and repairing secure and nonsecure communications systems and cryptographic equipment.
3.4.3. 2E391. Qualification in and possession of AFSC 2E371. Also, experience directing functions such as installing or maintaining communications facilities.

3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For entry, award, and retention of these AFSCs, no record of emotional instability.
3.5.3. For award and retention of AFSCs 2E331/51/71/91, eligibility for a Top Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

CEM Code 2E000
AFSC 2E491, Superintendent
AFSC 2E471, Craftsman
Journeyman AFSC 2E451
Apprentice AFSC 2E431
Helper AFSC 2E411

SPACE SYSTEMS

1. Specialty Summary. Performs and manages installation, operation, maintenance, and modification of fixed and mobile space systems equipment. Related DoD Occupational Subgroup: 104.

2. Duties and Responsibilities:
2.1. Manages space systems maintenance activities. Establishes performance and production standards and work methods. Determines extent and economy of repair for malfunctioning equipment. Recommends methods to improve equipment performance and maintenance procedures. Programs and accounts for equipment, supplies, and facilities. Prepares reports related to installing, repairing, maintaining, and evaluating space systems equipment. Analyzes data printouts and recordings to determine marginal or faulty equipment operation. Evaluates justification and practicability, and recommends corrections to improve equipment performance or maintenance procedures. Assists agencies to conduct research and development projects associated with space systems equipment. Performs system programming and acquisition functions such as spare provisioning, technical data verification, and design review for new and modified space systems equipment. Performs contract evaluation or monitor functions.
2.2. Inspects and evaluates space systems equipment maintenance activities. Conducts periodic and spot inspections of equipment and facilities to ensure compliance with technical order specifications and timely fulfillment of mission requirements. Interprets survey findings and prescribes corrective action. Serves on or directs inspection teams in evaluating space systems equipment maintenance activities.
2.3. Operates and performs preventive and scheduled maintenance on space systems equipment. Evaluates equipment performance using test equipment and diagnostic printouts. Performs self-verification and loop tests. Verifies operation of systems, subsystems, and major components. Operates, inspects, adjusts, tunes, and aligns equipment for maximum operating efficiency. Controls preventive maintenance scheduling by coordinating with related control agencies. Evaluates and recommends changes to preventive maintenance routines to provide optimum operational availability and equipment condition.
2.4. Repairs and monitors space systems equipment. Analyzes and isolates malfunctions, replaces or repairs defective units, and performs corrective alignments. Performs and directs on-the-spot malfunction corrections. Tests repaired units.
2.5. Installs and modifies space systems equipment. Performs installation and siting. Participates in system programming and acquisition functions. Designs equipment modifications to meet mission needs. Implements modifications according to configuration directives. Assembles, connects, and interwires space systems equipment. Uses layout drawings, schematics, logic diagrams, computer printouts, and commercial publications and technical orders to determine installation configuration and analyze operating characteristics. Checks equipment for serviceability before and after installation. Performs alignment and calibration procedures.
2.6. Maintains inspection and maintenance records, and documents maintenance actions. Posts entries on maintenance and inspection records. Records information in equipment performance logs.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electronic principles, including pulse and continuous modulation; theory of solid state devices; digital techniques, including numbering systems and Boolean algebra; synchros; servo drives; high power transmission systems and associated environmental control systems; space systems equipment operational procedures; data transmission; orbital mechanics; basic principles of analog-to-digital and digital-to-analog conversion, hydraulics, computer configuration, and information flow; data analysis procedures; interpretation of technical orders, commercial technical data, blueprints, drawings, wiring and logic diagrams, and schematic diagrams; military specifications and standards; and Air Force maintenance management and supply procedures.
3.2. Education. For entry into this specialty, completion of high school with courses in geometry, trigonometry, algebra, and physics is desirable.
3.3. Training. Completion of the following training is mandatory for award of the AFSC indicated:
3.3.1. 2E431. A basic space systems equipment maintenance course.
3.3.2. 2E471. The communications-electronics career advancement course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2E451. Qualification in and possession of AFSC 2E431. Also, experience in functions such as analyzing, testing, calibrating, or maintaining space systems equipment.
3.4.2. 2E471. Qualification in and possession of AFSC 2E451. Also, experience performing or supervising space systems maintenance.

3.4.3. 2E491. Qualification in and possession of AFSC 2E471. Also, experience directing space systems maintenance.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For award and retention of AFSCs 2E431/51/71/91, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

AFSC 2E571, Craftsman **Apprentice AFSC 2E531**
AFSC 2E551, Journeyman **Helper AFSC 23511**

IMAGERY SYSTEMS MAINTENANCE

1. Specialty Summary. Supervises and performs combat camera and other imagery systems maintenance activities. Prepares for use, performs operational checks, inspects, troubleshoots, repairs, overhauls, calibrates, modifies, and tests fixed and mobile combat camera and other imagery related equipment. Related DoD Occupational Subgroup: 198.

2. Duties and Responsibilities:
2.1. Supervises, plans, and organizes imagery systems maintenance activities. Establishes production controls and performance standards. Prepares and analyzes reports. Maintains liaison with other organizations to ensure quality of service and to resolve technical and operational difficulties. Develops and enforces conformance with prescribed quality and safety standards, including the hazard communication program. Establishes repair priorities. Reviews and ensures compliance with maintenance policies, procedures, and technical orders. Inspects imagery systems maintenance activities to determine operational status and solve maintenance problems. Reviews inspection findings and recommends corrective action. Performs quality control functions. Resolves imagery equipment installation, repair, overhaul, calibration, and modification problems.
2.2. Performs maintenance on imagery equipment. Inspects and tests components to correct system malfunctions. Ensures equipment performance standards are within technical order or commercial manual specifications, including cameras, projectors, film processing and printing equipment, electronic imaging and video equipment, and related support items for combat camera and deployable weapon systems. Inspects wiring, electrical connectors, printed circuit boards, and electronic chassis physical condition; and the assembly, installation, and electro-optical adjustment of mechanical, electrical, and optical equipment. Evaluates systems using test equipment and devices. Installs equipment, and services and adjusts equipment and systems. Identifies corrosion problems and accomplishes corrective measures. Lubricates and cleans equipment and components.
2.3. Prepares for use, performs operational checks, repairs, overhauls, calibrates, modifies, and tests imagery and combat camera equipment. Troubleshoots malfunctioning equipment using system-checking or problem solving procedures, and mechanical layout drawings, electronic and plumbing schematics, and diagrams. Repairs or replaces defective components. Removes assemblies and performs repairs on imagery systems. Installs, repairs, adjusts, aligns, and calibrates imagery systems equipment. Performs tolerance and simplification tests, and records malfunctions and component failures. Determines imagery system equipment limitations. Operates and maintains shop equipment. Tests and adjusts quality control instruments and other equipment.
2.4. Maintains inspection and maintenance records, and documents maintenance actions. Posts entries on maintenance and inspection records. Analyzes maintenance data to determine unfavorable trends or conditions.
2.5. Prepares deployable facilities and equipment for transportation and employment. Deploys, sets-up, and maintains deployed facilities and equipment.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: transmission and electronics theories; solid state components; digital techniques; optical and mechanical principles; imagery equipment; microprocessors; installation and testing practices; use of test equipment; wiring and logic diagrams and circuit schematics; and Air Force supply and maintenance procedures.
3.2. Education. For entry into this specialty, completion of high school with courses in algebra, geometry, trigonometry, and physics is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 2E531. Completion of a basic imagery equipment maintenance course.
3.3.2. 2E571. Completion of the communications-electronics career advancement course.

3.4. Experience. The following experience is mandatory for award of the AFSC indicated:

3.4.1. 2E551. Qualification in and possession of AFSC 2E531. Also, experience installing, maintaining, or repairing imagery equipment or using test equipment.

3.4.2. 2E571. Qualification in and possession of AFSC 2E551. Also, experience performing or supervising functions such as installing, maintaining, repairing, overhauling, or modifying imagery equipment.

3.5. Other. The following are mandatory as indicated:

3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.

3.5.2. For award and retention of AFSCs 2E531/51/71/91, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

CEM Code 2E000 **Superintendent AFSC 2E690**

TELEPHONE AND DISTRIBUTED COMMUNICATIONS SYSTEMS
(Changed 30 Apr 98)

1. Specialty Summary. Superintends installation and maintenance actions on all telephone switching, telephone and circuitry equipment, cable, and antenna activities supporting command, control, communications, and computer (C4) systems. Related DoD Occupational Subgroup: 623.

2. Duties and Responsibilities:
2.1. Plans and organizes telephone systems, cable, or antenna activities.. Determines requirements for space, equipment, tools, vehicles, and personnel to perform installation and maintenance actions. Develops and improves work methods and procedures related to installation and maintenance of all telephone, cable, and antenna systems supporting C4 systems. Coordinates with activities and organizations to determine requirements.
2.2. Directs telephone system, cable, or antenna activities. Establishes priorities for installation and maintenance actions. Organizes work teams. Schedules installation and maintenance actions.
2.3. Inspects and evaluates telephone system, cable, or antenna activities. Inspects telephone system, cable, or antenna activities for compliance with standards. Evaluates inspection findings, and implements corrective action.
2.4. Performs technical and maintenance functions. Resolves technical problems. Interprets plans and specifications as required.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: maintenance management principles, principles of telephony; electrical and lightwave communications fundamentals, wire and antenna transmission phenomena; and digital telephone switching systems; telephone equipment and data circuitry; cable systems; and antenna systems.
3.2. Education. Not used.
3.3. Training. Not used.
3.4. Experience. For award of AFSC 2E690, qualification in and possession of AFSC 2E671/72/73 is mandatory. Also, experience is mandatory supervising installation and maintenance in areas such as telephone switching systems; telephone subsets; telephone key systems and data transmission media systems circuitry; T-carrier; fiber-optic end equipment; modems; multiplexers; line drivers and associated hardware; and cable and antenna systems, including supporting structures, radomes, and transmission lines, and buried, aerial, underground copper core, and fiber-optic C4 cable systems.
3.5. Other. For award and retention of this AFSC, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*, is mandatory.

AFSC 2E671, Craftsman **Apprentice AFSC 2E631**
AFSC 2E651, Journeyman **Helper AFSC 2E611**

COMMUNICATIONS ANTENNA SYSTEMS
(Changed 31 Oct 94)

1. Specialty Summary. Supervises, plans, and schedules installation and maintenance actions on antenna systems for command, control, communications, and computers (C4). Monitors and analyzes performance of these antenna systems. Related DoD Occupational Subgroup: 621.

2. Duties and Responsibilities:
2.1. Plans and schedules antenna systems installation and maintenance actions. Interprets engineering sketches and drawings, project directives, communication-computer systems installation records (CSIR), and technical orders to resolve project and maintenance action problems. Determines installation and maintenance actions and repair procedures. Inventories project and work order materials. Uses maintenance data collection information to identify maintenance problem areas, and implements corrective action. Initiates and conducts system verification tests to assess the capability, quality, and effectiveness of antenna systems. Processes civil engineer work clearance requests.
2.2. Performs antenna installation, removal, and maintenance actions. Climbs poles, towers, and other structures to restore, repair, or reconstitute antenna systems. Performs safety tests on antenna structures and equipment. Surveys, assembles, erects, and maintains antenna supports, including tower structures, poles, guys, anchors, obstruction lighting systems, and lightning protection devices. Installs, maintains, removes, and relocates systems such as radomes, radiating and receiving elements, passive and active reflectors, electrical amplifiers, and air dryers. Tests radio frequency coaxial cables; wave guides; pressurized transmission lines; underground, aerial, and buried coaxial and cable systems, including counterpoises and control cables. Tests antenna electrical characteristics such as insulation resistance, voltage standing wave ratio, system return loss test, and antenna gain. Conducts inspections and performs preventive maintenance on antenna systems and support structures. Ensures mechanical or electrical installations and maintenance techniques meet technical standards, specifications, and engineering directives. Operates and performs operator maintenance on tools, test equipment, auxiliary equipment, and vehicles such as backhoes, trenchers, cable reel line trucks, cable trailers, and low profile line trucks.
2.3. Inspects, evaluates, analyzes, troubleshoots, and repairs antenna systems, transmission lines and cable air dryers. Determines cause of signal deterioration in antenna systems. Performs pneumatic troubleshooting techniques to locate faulty transitions, connectors, and waveguides. Locates and traces buried RF and antenna control cables. Excavates and backfills trench lines and splice pits. Performs operational checks and preventive maintenance inspection requirements on antenna systems. Recommends methods to improve test and support equipment, including vehicles, technical orders, and installation and maintenance procedures.
2.4. Maintains records. Prepares, interprets, and updates CSIRs, including information related to radio frequency cable, wave guides, and associated hardware. Completes maintenance data collection forms. Maintains technical orders.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: installation maintenance management functions; electrical fundamentals; CSIRs; engineering drawings and symbols; characteristics of transmission lines; antenna and obstruction systems, rectifiers, power supplies, motors, generators, and servomechanisms; antenna fundamentals, including antenna theory and principles of rotators, amplifiers, transmission lines, and control cables; antenna installation procedures, including radio frequency cable, wave guide splicing, and repair and maintenance techniques of radomes; operation and theory of cable pressurization, alarm systems, locating cable faults, identifying causes of deterioration in coaxial cable transmission, tracing buried coaxial cable, coaxial cable testing procedures, and methods of sealing cables; safety precautions related to oxygen deficiency, oxygen enrichment, toxic and explosive gases, working aloft, rescue procedures for aerial and underground environments, and basic first aid and cardiopulmonary resuscitation; use and limitations of test set operations; corrosion prevention and control procedures; and capabilities, limitations, operations, and functional use of antenna systems and associated hardware.
3.2. Education. For entry into this specialty, completion of high school with courses in analytical mathematics is desirable.
3.3. Training. For award of AFSC 2E631, completion of a basic antenna systems course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2E651. Qualification in and possession of AFSC 2E631. Also, experience in functions such as installing, maintaining, and repairing antenna systems, including related electrical equipment, coaxial and control cables, and transmission lines.
3.4.2. 2E671. Qualification in and possession of AFSC 2E651. Also, experience performing or supervising functions in areas such as project installation and maintenance actions, antenna systems, and related electrical hardware.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty:

3.5.1.1. Normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.1.2. Qualification to operate a government vehicle according to AFMAN 24-309, *Vehicle Operations*.
3.5.2. For entry, award, and retention of these AFSCs:
3.5.2.1. Normal depth perception and normal gait and balance as defined in AFI 48-123.
3.5.2.2. Physical ability to perform climbing duties and freedom from fear of heights and claustrophobia.

AFSC 2E672, Craftsman **Apprentice AFSC 2E632**
AFSC 2E652, Journeyman **Helper AFSC 2E612**

COMMUNICATIONS CABLE SYSTEMS
(Changed 31 Oct 94)

1. Specialty Summary. Supervises and plans installation and maintenance of underground, buried, and aerial copper core and fiber-optic cables supporting systems for command, control, communications, and computers (C4). Installs and maintains dedicated local area network (LAN) and wide area network (WAN) media distribution systems, modems, and multiplexers. Monitors and analyzes performance of these cable systems. Related DoD Occupational Subgroup: 621.

2. Duties and Responsibilities:
2.1. Supervises and plans cable systems installation and maintenance actions. Resolves project installation and maintenance problems by interpreting project sketches, drawings, project directives, diagrams, communication computer systems installation records (CSIR), and technical orders. Determines project installation and maintenance actions and repair procedures. Inventories project and work order materials. Initiates and conducts system verification tests to assess capability and effectiveness of copper core and fiber optic C4 systems. Coordinates operations with using activities. Inspects and evaluates cable installation and maintenance actions. Evaluates inspection reports, and analyzes survey and test results. Implements corrective action. Processes civil engineer work clearance requests.
2.2. Installs, removes, repairs, and tests underground, buried, and aerial copper core and fiber-optic cable systems. Included are modems, multiplexers, line balancing and loading equipment, and T-carrier span repeaters. Installs and maintains premise wiring, modems, and multiplexers for dedicated LAN and WAN media distribution systems. Climbs poles to install, splice, maintain, and repair aerial pole line cable and wiring systems. Ensures cables are protected from moisture. Installs underground cable, uses duct rods, cleans cable duct systems, prepares and uses cable pulling apparatus. Installs distribution terminals and housings. Terminates copper core and fiber optic cables on interface equipment. Installs cable air dryers, and continuous flow and static pressurization systems. Excavates and backfills splice pits. Operates and maintains special tools, test equipment, auxiliary equipment, and vehicles such as backhoes, trenchers, cable trailers, and cable reel trucks.
2.3. Monitors, analyzes, and troubleshoots cable distribution systems. Corrects electrical, lightwave, and pneumatic faults. Determines cause of signal deterioration in cable carrying audio, video, digital, and data transmission. Troubleshoots, repairs, and replaces T-carrier span repeaters, fiber optic modems, and multiplexers. Performs pneumatic troubleshooting. Identifies and repairs faulty splice closures, repairs leaks in pressurized cable systems, repairs demivalves, and adjusts pressure transmiters and contactors. Interprets compressor meter readings, and repairs or replaces damaged pneumatic and electrical components in cable air dryers. Uses test equipment to identify copper conductors and optic fibers in cables. Locates and traces buried cable. Performs operational checks and preventive maintenance inspection requirements.
2.4. Maintains CSIRs, maintenance and inspection cable records, and technical orders. Posts entries on maintenance records and CSIRs. Recommends methods to improve test and support equipment, vehicles, installation and maintenance procedures, and technical orders.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: installation and maintenance management functions; wire transmission principles; electrical and lightwave communications on aerial, buried, and underground copper core and fiber optic communications, and hardened missile cable pressure and alarm systems; fiber optics transmission; characteristics of copper core and fiber optics; CSIRs, standard drawing symbols, and electrical and optical transmission characteristics of copper core and fiber-cable splicing; splicing diagrams, techniques, and test sets-their purpose, operation, use, and limitations; operation and theory of cable pressurization, alarm systems, locating cable faults, identifying causes of deterioration in cable transmission, and tracing buried cable; and cable testing procedures, methods of sealing cables, and safety precautions related to oxygen deficiency and enrichment, toxic and explosive gases, working aloft, rescue procedures for aerial and subterranean environments, and electric shock and burn treatment, also basic first aid and cardiopulmonary resuscitation.
3.2. Education. For entry into this specialty, completion of high school with courses in analytical mathematics is desirable.
3.3. Training. For award of AFSC 2E632, completion of the basic communication cable systems course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2E652. Qualification in and possession of AFSC 2E632. Also, experience in functions such as installing, maintaining, testing, identifying, locating, repairing, and replacing components in copper core and fiber optic C4 cable systems.
3.4.2. 2E672. Qualification in and possession of AFSC 2E652. Also, experience supervising functions such as installing, identifying, locating, repairing, replacing, and correcting cable faults and defects, or testing copper core and fiber optic cable supporting systems for C4.
3.5. Other. The following are mandatory as indicated:

3.5.1. For entry into this specialty:
3.5.1.1. Normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.1.2. Qualification to operate a government vehicle according to AFMAN 24-309, *Vehicle Operations*.
3.5.2. For entry, award, and retention of these AFSCs:
3.5.2.1. Normal depth perception and normal gait and balance as defined in AFI 48-123.
3.5.2.2. Physical ability to perform climbing duties and freedom from fear of heights and claustrophobia.

AFSC 2E673, Craftsman **Apprentice AFSC 2E633**
AFSC 2E653, Journeyman **Helper AFSC 2E613**

TELEPHONE SYSTEMS
(Changed 31 Oct 95)

1. Specialty Summary. Manages the installation, repair and maintenance of telephone switching systems, telephone subsets, telephone key systems, data transmission media systems circuitry, T-carrier, fiber-optic end equipment, modems, multiplexers, line drivers; and associated hardware supporting command, control, communications, and computer (C4) systems. Installs, removes, refurbishes, maintains, tests, and troubleshoots these systems, equipment items, and associated hardware. Monitors and analyzes the performance of these switching systems, equipment items, and associated hardware. Manages supporting C4 systems. Related DoD Occupational Subgroup: 622.

2. Duties and Responsibilities:
2.1. Manages, plans, schedules, and performs installation and removal of telephone switching system, telephone subsets, telephone key systems, data transmission media systems, interior wiring, T-carrier, telephone intercom systems, and associated equipment. Installs and removes copper core or fiber-optic wiring, modems, terminal blocks, and telephone instruments. Climbs ladders to install, remove, and maintain wiring. Interprets sketches and layout drawings for placement of telephone systems and equipment. Reviews, recommends, develops, and implements changes to communications-computer systems installations records (CSIR), standard installation practice technical orders, standard and engineering drawings, and equipment wiring diagrams. Ensures equipment and components meet standard installation practice technical order specifications. Instructs and performs installation procedures. Straps and programs key units for required features. Plans interior wiring.
2.2. Installs, removes, refurbishes, tests, troubleshoots, and repairs telephone switching systems, telephone subsets, telephone key systems, telephone intercom systems, data transmission media systems, T-carrier, fiber-optic end equipment, multiplexers, line drivers, modems, and associated equipment. Determines cause of signal deterioration, noise, and crosstalk in circuits. Coordinates with users to ensure systems and services meet user's need. Makes recommendations to improve services provided to users. Repairs signal deterioration and changes to transmission characteristics in circuits. Checks equipment for serviceability and compliance with technical data. Tests and verifies that local and long distance systems meet established parameters. Analyzes test results and takes corrective action. Operates and performs operator maintenance on special purpose vehicles, tools, and test equipment. Performs corrosion control.
2.3. Maintains manual telephone attendant cabinets or consoles. Maintains, fabricates, and terminates circuits, and copper core or fiber-optic cables and associated hardware. Establishes, monitors, and reconfigures local and long-distance circuitry. Performs preventive maintenance. Maintains Defense Switched Network four-wire circuitry and control terminal equipment. Tests and verifies circuitry meet established transmission requirements. Identifies maintenance problem areas, and implements corrective action. Analyzes records accuracy. Isolates malfunctions. Implements approved equipment modifications.
2.4. Maintains and administers various records, forms, and databases. Updates and verifies entries on system, facility, maintenance, and inspection records. Initiates, tracks, and maintains shipping, receiving, supply, and equipment documents. Reviews and maintains operational measurement reports.
2.5. Inspects and evaluates activities. Conducts periodic inspections of systems installations and repair activities. Interprets inspection reports, and implements corrective actions.
2.6. Evaluates operational plans. Analyzes traffic load and telephone number assignments. Evaluates engineering plans for telephone systems.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of maintenance management practices; telephony fundamentals; electronic principles, including theory of solid-state components, digital techniques, and copper core and fiber-optic transmission principles applying to telephone switching systems; T-carrier; fiber-optic modems; multiplexers, line drivers, and associated hardware; telephone wiring practice; and CSIRs: project and circuit diagram interpretation, digital translation, installation procedures, high reliability soldering techniques, and test equipment and special tools required for installation and maintenance actions on these systems.
3.2. Education. Completion of high school with courses in analytical mathematics is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 2E633. Completion of a basic telephone system course.
3.3.2. 2E673. Completion of a communications-electronics career advancement course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:

3.4.1. 2E653. Qualification in and possession of AFSC 2E633. Also, experience is mandatory in functions such as installing, troubleshooting, and repairing telephone switching systems; data transmission media systems; telephone and data circuitry equipment to include T-carrier, fiber-optic modems, and multiplexers and associated hardware equipment.
3.4.2. 2E673. Qualification in and possession of AFSC 2E653. Also, experience is mandatory in functions such as performing and supervising installation, maintenance, and repair of these systems.
3.5. Other: The following are mandatory as indicated:
3.5.1. For entry into this specialty:
3.5.1.1. Normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.1.2. Qualification to operate a government vehicle according to AFMAN 24-309, *Vehicle Operations*.
3.5.2. For entry, award, and retention of these AFSCs, physical ability to perform climbing duties, and freedom from fear of heights and claustrophobia.
3.5.3. For award and retention of AFSCs 2E633/53/73, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

CEM Code 2E800
AFSC 2E891, Superintendent
AFSC 2E871, Craftsman
Journeyman AFSC 2E851
Apprentice AFSC 2E831
Helper AFSC 2E811

INSTRUMENTATION AND TELEMETRY SYSTEMS
(Changed 31 Oct 95)

1. Specialty Summary. Performs and manages design support, installation, calibration, testing, operation, maintenance, and repair of instrumentation and telemetry facilities, systems, equipment, and related subsystems. Monitors, analyzes, and directs performance checks and measurements of instrumentation and telemetry systems to ensure acceptable performance. Related DoD Occupational Subgroup: 122.

2. Duties and Responsibilities:
2.1. Directs, plans, and organizes instrumentation and telemetry activities. Provides technical and design support assistance, solves problems for test site and operation, and maintenance functions. Ensures compliance with policies, directives, and regulations. Establishes requirements for tools, equipment, and technical documents. Establishes work standards, methods, and controls for functions such as periodic inspections, operational testing, and component repair. Evaluates and resolves deficiencies. Evaluates and recommends changes to improve equipment performance or maintenance practices. Analyzes report findings and recommends corrective action. Serves on or directs inspection teams in evaluating instrumentation and telemetry systems operations and maintenance activities. Determines extent and economy of repair, including disposition of malfunctioning equipment. Develops and enforces safety rules. Coordinates with using organizations to ensure adequate services are being provided.
2.2. Assembles, installs, and operates instrumentation and telemetry systems. Unpacks, checks, assembles, and installs instrumentation and telemetry equipment used to measure performance of munitions, aircraft, missiles, satellites, spacecraft, biomedical, laser systems, and hardened missile sites. Inspects completed assemblies during all phases of static and dynamic testing. Operates instrumentation and telemetry systems comprised of components such as transmitters, recorders, computers, and data conditioning and conversion equipment.
2.3. Repairs, overhauls, modifies, and maintains instrumentation and telemetry systems. Uses schematics, blueprints, and wiring diagrams to analyze and isolate system malfunctions. Repairs standard instrumentation, telemetry components, and special equipment. Checks and adjusts instrumentation systems, and synchronizes with other test control systems. Resolves problems installing, operating, maintaining, repairing, isolating malfunctions, and modifying instrumentation and telemetry systems and equipment. Troubleshoots, calibrates, and repairs instrumentation and telemetry systems comprised of components such as transmitters, recorders, computers, and data conditioning and conversion equipment. Disassembles and repairs radar, television, airborne and ground analog and digital telemetry, laser, and timing device components, and other special equipment used for research and development projects. Analyzes equipment limitations, and modifies equipment to increase operational efficiency for specific missions. Reassembles components and calibrates, aligns, and adjusts completed assemblies. Accomplishes tolerance and specification tests, and records and repairs recurring malfunctions.
2.4. Inspects instrumentation and telemetry systems to determine performance. Analyzes data to detect deficiencies. Inspects, adjusts, and aligns instrumentation and telemetry equipment to secure maximum operating efficiency.
2.5. Maintains inspection and maintenance records. Posts entries on maintenance and inspection records. Records information in equipment performance logs.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: application of electronics theory to instrumentation and telemetry systems, including solid state components and digital techniques; use of test equipment; application of mathematics, including algebraic formulas and physics to instrumentation and telemetry systems; interpretation of schematic diagrams, blueprints, wiring diagrams; Air Force supply procedures; resource protection; and funds management.
3.2. Education. For entry into this specialty, completion of high school with courses in mathematics and physics is desirable.

3.3. Training. Completion of the following training is mandatory for award of the AFSC indicated:
3.3.1. 2E831. A basic instrumentation and telemetry systems course.
3.3.2. 23871. The communications-electronics career advancement course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2E851. Qualification in and possession of AFSC 2E831. Also, experience in functions such as assembly, installation, repair, modification, and operation of instrumentation and telemetry systems; adjusting and calibrating instrumentation components; replacing defective parts; or repairing faulty components.
3.4.2. 2E871. Qualification in and possession of AFSC 2E8X1. Also, experience in performing or supervising functions such as: assembly, installation, repair, modification, and operation of instrumentation and telemetry systems; repairing test equipment; adjusting and calibrating instrumentation components; replacing defective parts; or repairing faulty components.
3.4.3. 2E891. Qualification in and possession of AFSC 2E871. Also, experience directing functions such as inspecting, assembling, installing, modifying, operation, and maintenance of instrumentation and telemetry systems and equipment.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFMAN 48-123, *Medical Examination and Standards*.
3.5.2. For award and retention of AFSCs 2E831/51/71/91/00, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

Attachment 13

FUELS CAREER FIELD (2F)

★Introduction
(Changed 31 Oct 98)

The Fuels Career Field encompasses operating and managing petroleum fuel systems and activities including the entire spectrum of requisitioning, accounting, receiving, storing, dispensing, and testing of aviation and ground fuels, cryogenics, missile propellants and alternative fuels such as compressed natural gas. Mobile refueling vehicles or equipment along with installed mechanical fuel systems are used to receive or distribute aviation and ground fuels. All operations encompass environmental protection and energy conservation practices. Computer systems are used throughout the fuels career field. The following career field chart depicts the entire Fuels Career Field.

FUELS (2F)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent**	**Chief Enlisted Manager Level**
2F011 Fuels	2F031 Fuels	2F051 Fuels	2F071 Fuels	2F091 Fuels	2F000 Fuels

CEM Code 2F000
AFSC 2F091, Superintendent
AFSC 2F071, Craftsman

Journeyman AFSC 2F051
Apprentice AFSC 2F031
Helper AFSC 2F011

FUELS
(Changed 31 Oct 98)

★1. Specialty Summary. Maintains, and operates petroleum, missile, alternative and cryogenic facilities and equipment. Receives, stores, and issues, petroleum fuels and cryogenics products. Performs quality analysis on petroleum and cryogenics products. Performs operator maintenance on fuels handling equipment and facilities. Prepares receipt, inventory, and issue documents for fuels and cryogenic products accounting. Operates specialized mobility fuels equipment. Related DoD Occupational Subgroup: 821.

★2. Duties and Responsibilities:
2.1. Directs receipt storage and issue operations for petroleum, cryogenic, and alternative fuel products. Projects product requirements, places orders for products, and performs product receipt operations. Ensures proper handling and segregation of products received and verifies quantity and quality. Documents discrepancies in product receipt quantities and quality. Isolates off-specification products and takes appropriate actions to correct quality problems. Operates and maintains cryogenic production plants. Ensures compliance with all safety and environmental regulations.
2.2. Maintains storage and dispensing facilities. Rotates stocks to prevent product quality degradation. Ensures an effective operator maintenance program is carried out. Performs operator checks and routine maintenance on facilities. Maintains inspections and maintenance records for facilities. Reports facility deficiencies to appropriate maintenance activity. Initiates facility upgrade and construction projects. Manages fuels mobility support equipment used for bare base operations. Maintains and operates fuels mobility support equipment.
2.3. Performs technical fuels functions. Operates fuels control center to monitor all product movements and ensure timely response to mission requirements. Coordinates refueling requirements with supported agencies and ensures appropriate prioritization of support requirements. Ensures an effective vehicle preventive maintenance program is carried out. Operates mobile and hydrant refueling equipment to dispense products to aircraft and ground support equipment and facilities. Operates cryogenic storage tanks to dispense products. Calculates and documents issue transactions for all products.
2.4. Maintains fuels and cryogenic records. Ensures accuracy of receipt, inventory, and issue documents. Processes computer transactions to ensure proper billing and payment for all product receipt and issue transactions. Monitors product temperature and handling gains and losses to ensure they are within authorized tolerance. Compiles data and generates recurring reports. Monitors inventory levels to ensure adequate stocks are on-hand to support peacetime and pre-positioned wartime stock requirements. Compiles consumption data and monitors energy conservation goals. Inputs data into the Fuels Automated System (FAS) Defense Fuels Automated Management System (DFAMS), and the Standard Base Supply System (SBSS) to ensure accurate accountability and visibility of capabilities and support limitations. Electronically transfers fuels transactions to the Fuels Automated Management System-Air Force (FAMS-A). Reconciles all data bases to ensure all transactions have processed correctly.
2.5. Maintains quality control of petroleum fuel, and cryogenic products. Operates and maintains laboratory test equipment. Collects and analyzes product samples from receipt sources, bulk storage tanks, and dispensing equipment. Documents analysis results in FAS and reviews quality trend analysis records. Establishes a sample correlation program with the aerospace fuels area laboratory to ensure the integrity of the base-level analysis procedures. Collects fuel samples from crashed aircraft and submits them to the area laboratory for full specification analysis. Ensures an effective product segregation and recovery program is implemented. Implements the lock out, tag out program to prevent the use of substandard fuel or facilities.
2.6. Establishes personnel controls, training program, and supply administrative procedures. Monitors unit manning document and allocates personnel to authorized positions. Oversees unit personnel readiness. Participates in mobility planning, submission of resources and training system data, and evaluates and approves unit type code changes.

★3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: composition, properties, and characteristics of petroleum products and cryogenics fluids including toxic, explosive, and fire hazards; environmental protection procedures; conservation; methods of receiving, storing, testing, and evaluating fuel and cryogenic fluids under normal, field, or remote conditions; and fuels deployment and contingency operations.
3.2. Education. For entry into this specialty, completion of high school with courses in general science, computer science, mathematics, and chemistry is desirable.
3.3. Training. For award of AFSC 2F031, completion of the basic base fuels course is mandatory.

3.4. Experience. The following experience is mandatory for award of the AFSC indicated:

3.4.1. 2F051. Qualification in and possession of AFSC 2F031. Also, experience is mandatory in functions such as receipt, issue, and transfer operations from mechanical fuel storage systems and cryogenic storage, operating available mobile refueling equipment, documenting fuels transactions for computer processing, and performing laboratory analysis on petroleum products.

3.4.2. 2F071. Qualification in and possession of AFSC 2F051. Also, experience is mandatory in functions such as fuels accounting training, material control and fuels quality control functions.

3.4.3. 2F091. Qualification in and possession of 2F071. Also, experience in fuels operations functions such as mobile refueling and fuels hydrants and storage; managing fuels inventory accounts; and fuels laboratory and training requirements.

3.5. Other. The following are mandatory as indicated:

3.5.1. For entry into this specialty:

3.5.1.1. Normal color vision as defined in AFR 48-123, *Medical Examination and Standards*.

3.5.1.2. Qualification to operate government vehicles according to AFMAN 24-309, *Vehicle Operations*.

3.5.2. For award and retention of AFSCs 2F031/51/71/91/00, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

Attachment 14

LOGISTICS PLANS CAREER FIELD (2G)

INTRODUCTION

The Logistics Plans Career Field encompasses managing, administering, and operating logistics plans systems and activities. Included in this field are formulating, developing, evaluating, and monitoring all aspects of logistics plans systems such as plans, policies, and programs pertaining to executing partial or total Air Force or joint service mission, and using the guidance and procedures for interpreting and implementing current, intermediate, and long range plans, policies, and programs. The following is a complete listing of AFSCs for the Logistics Plans Career Field.

LOGISTICS PLANS (2G)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
2G011 Logistics Plans	2G031 Logistics Plans	2G051 Logistics Plans	2G071 Logistics Plans	2G091 Logistics Plans	2G000 Logistics Plans

CEM Code 2G000
AFSC 2G091, Superintendent
AFSC 2G071, Craftsman

Journeyman AFSC 2G051
Apprentice AFSC 2G031
Helper AFSC 2G011

LOGISTICS PLANS
(Changed 30 Apr 95)

1. Specialty Summary. Develops, evaluates, monitors, and supervises logistics plans and programs including war reserve materiel (WRM), deployments, employment, and support agreements. Related DoD Occupational Subgroup: 551.

2. Duties and Responsibilities:
2.1. Performs logistics plans functions. Develops and supervises preparation of logistics annexes for operations plans and orders, employment support, programming plans, and general support, contingency, and exercise plans. Prepares and supervises the development of logistics feasibility and capability studies. Monitors and resolves logistics limiting factors. Prepares, evaluates, and supervises all aspects of deployment planning, dispersal, sustainment, recovery, reconstitution, logistics exercises, and logistics support procedures. Assists in the conduct of installation surveys to determine support capability. Integrates support for all operations.
2.2. Performs WRM functions. Develops guidance and supervises administration, surveillance, and management of the WRM program. Analyzes WRM reports to validate constraints and develop planning factors. Validates and monitors WRM deficiencies. Participates in WRM review board. Assists in WRM requirements determination process.
2.3. Performs deployment functions. Prepares, compiles, coordinates, publishes, distributes, maintains, and implements the deployment plan. Plans, conducts, and monitors exercises and training. Prepares for and supervises deployments and redeployments. Establishes and operates a control center. Prepares, maintains, and monitors personnel and equipment lists. Identifies and validates data processing system software and hardware needs relative to the Contingency Operations Mobility Planning and Execution System. Reviews planning documents to determine deployment taskings.
2.4. Performs employment functions. Beds down combat forces, analyzes emergency action messages, and recommends solutions. Develops crisis action procedures in conjunction with other employed organizations. Maintains a close relationship between operations, logistics, and support organizations to enhance support of the combat mission. Analyzes and recommends requirements for forward movement of forces to support theater commanders. Integrates redeployment planning actions with functional area representatives.
2.5. Performs support agreement functions. Receives requests for support from receiving units, and arranges meetings involving all functional areas impacted by the support requirements. Establishes communications between receiving unit and the providers of the support. Documents required support and estimated costs with funding responsibilities through the financial management office. Reviews support agreements triennially and initiates required changes.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of functional areas of supply, maintenance, transportation, or contracting.
3.2. Education. For entry into this specialty, completion of high school is desirable.
3.3. Training. The following training is mandatory for award of AFSC indicated:
3.3.1. 2G031. Completion of a basic logistics plans course.
3.3.2. 2G071. Completion of the advanced logistics plans course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2G051. Qualification in and possession of AFSC 2G031. Also, experience in functions such as developing evaluating, monitoring, or inspecting logistics activities, or preparing logistics plans and documents.
3.4.2. 2G071. Qualification in and possession of AFSC 2G051. Also, experience performing or supervising functions such as developing evaluating, monitoring, or inspecting logistics activities, or preparing logistics plans and documents.
3.4.3. 2G091. Qualification in and possession of AFSC 2G071. Also, experience managing functions such as developing evaluating, monitoring, or inspecting logistics activities, or preparing logistics plans and documents.

3.5. Other. The following are mandatory as indicated:

3.5.1. For entry into this specialty, prior qualification at the 5-skill level or higher in an AFSC in one of the following career fields: 2A, 2E, 2F, 2M, 2P, 2R, 2S, 2T, 2W, 6C, or 6F career field; or in an AFSC performing or supervising functions such as developing, evaluating, monitoring, and inspecting logistics activities, including logistics plans and documents or specialized programming functions.

3.5.2. For entry, award, and retention of these AFSCs:

3.5.2.1. Ability to speak distinctly.

3.5.2.2. Ability to communicate effectively in writing.

3.5.3. For award and retention of AFSCs 2G031/51/71/91/00, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

Attachment 15

MISSILE AND SPACE SYSTEMS MAINTENANCE CAREER FIELD (2M)

INTRODUCTION

The Missile and Space Systems Maintenance Career Field encompasses the skills, functions, and techniques used to acquire, activate, assemble, transport, install, and maintain missiles and subsystems; acquire, activate, and supervise assembly, transportation, maintenance, inspection, modification, and launch processing of spacelift boosters, satellites, and subsystems; launch, control, track, and recover unmanned air vehicles (UAV) and related equipment; assemble, operate, fabricate, install, test, and troubleshoot specialized research and development (R&D) systems and subsystems; acquire, activate, inspect, maintain, repair, calibrate, modify, and manage these actions on related missile, booster, satellite, UAV, and R&D facilities, support systems, test equipment, and subsystems. The following is a complete listing of AFSCs for the Missile and Space Systems Maintenance Career Field.

MISSILE & SPACE SYSTEMS MAINTENANCE (2M)											
Input or Helper Level		**Apprentice or Semiskilled Level**		**Journeyman or Skilled Level**		**Craftsman or Advanced Level**		**Superintendent Level**		**Chief Enlisted Manager Level**	
2M011	Msl & Space Sys Elect Maint	2M031	Msl & Space Sys Elect Maint	2M051	Msl & Space Sys Elect Maint	2M071	Msl & Space Sys Elect Maint	2M090	Msl & Space Sys Maint	2M000	Msl & Space Sys Maint
A	ICBM	A	ICBM								
B	ALCM	B	ALCM								
2M012	Msl & Space Sys Maint	2M032	Msl & Space Sys Maint	2M052	Msl & Space Sys Maint	2M072	Msl & Space Sys Maint				
A	ICBM	A	ICBM								
2M013	Msl & Space Facilities	2M033	Msl & Space Facilities	2M053	Msl & Space Facilities	2M073	Msl & Space Facilities				
A	ICBM	A	ICBM								

CEM Code 2M000 **Superintendent AFSC 2M090**

MISSILE AND SPACE SYSTEMS MAINTENANCE
(Changed 30 Apr 95)

1. Specialty Summary. Manages maintenance, processing, acquisition, and operation of ground and air launched missiles, unmanned air vehicles (UAV), aircraft missile rotary launchers and pylons, spacelift boosters, payloads, related subsystems, test, calibration, support and handling equipment, and facilities. Manages activities associated with research and development (R&D) systems. Related DoD Occupational Subgroup: 121.

2. Duties and Responsibilities:
2.1. Plans and organizes missile, UAV, spacelift booster, payload, and R&D maintenance and processing activities. Develops and manages organizational structure and responsibilities. Determines resource requirements. Coordinates missile, booster, and payload maintenance and launch processing activities. Requisitions and accounts for equipment, facilities, and supplies. Manages ICBM coding, acquisition, and activation activities.
2.2. Evaluates and directs missile maintenance, booster and payload processing, and R&D activities. Evaluates and directs missile, booster, payload, and R&D maintenance and processing activities. Interprets efficiency and equipment reliability findings and recommends improvement. Evaluates unit compliance with prescribed efficiency, quality, and training standards. Analyzes missile, UAV, booster, and payload systems, subsystems, components, and related equipment. Recommends improvements.
2.3. Supervises and coordinates maintenance, operations, and R&D functions.
2.4. Coordinates inspection findings.
2.5. Insures compliance with international treaties relating to nuclear weapons and associated equipment.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of electronic theory or mechanical principles of missiles, UAVs, spacelift vehicles, and payloads.
3.2. Education. Not used.
3.3. Training. Not used.
3.4. Experience. For award of AFSC 2M090, qualification in and possession of AFSC 2M071, 2M072, or 2M073 is mandatory. Also, experience is mandatory managing R&D systems, operations or maintenance of missiles and UAVs, or operation of launch facilities.
3.5. Other. For award and retention of AFSC 2M090/00, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program,* is mandatory.

AFSC 2M071, Craftsman **Apprentice AFSC 2M031***
AFSC 2M051, Journeyman **Helper AFSC 2M011***

MISSILE AND SPACE SYSTEMS ELECTRONIC MAINTENANCE
(Changed 30 Apr 95)

1. Specialty Summary. Maintains, operates, and supervises maintenance on ground and air missiles, unmanned air vehicles (UAV), spacelift boosters, payload guidance and control systems, and subsystems. Monitors, analyzes, and compiles system performance data. Supervises maintenance on automated and manual electronic test, launch control, checkout, and support equipment (SE). Designs and supervises assembly, calibration, operation, troubleshooting, and testing of research and development (R&D) systems and SE. Launches, tracks, and recovers UAVs, and operates and maintains SE. Related DoD Occupational Subgroup: 121.

2. Duties and Responsibilities:
2.1. Monitors, operates, and supervises operation of consoles, fault display panels, and checkout equipment. Monitors status of missiles, UAVs, boosters, payloads, subsystems, and SE. Operates or oversees checkout and test equipment operation.
2.2. Supervises and performs missile, UAV, spacelift booster, and payload systems maintenance and launch processing. Directs and controls activities of contractor personnel during space launch activities. Operates, calibrates, inspects, maintains, or oversees these actions on missiles, missile and aircraft integration systems, aerospace vehicle equipment, operational ground equipment, automated and manual test equipment, spacelift boosters, and payloads. Coordinates launch processing or maintenance activities. Diagnoses flight data gathered during operational and test launches. Performs intercontinental ballistic missile (ICBM) coding activities.
2.3. Performs or assists malfunction analysis and repair of missile, UAV, booster, and payload systems and subsystems. Determines system status. Operates or supervises operation of automated and manual test and checkout equipment. Disassembles, inspects, services, and replaces components and wiring. Modifies and repairs airframe and surfaces. Reassembles and verifies repairs, or supervises these actions on electronic components of missiles, boosters, and payloads. Maintains technical orders and publication files. Records findings.
2.4. Performs or supervises maintenance on electronic equipment, and coordinates launch processing and maintenance activities. Performs or supervises electronic equipment maintenance. Coordinates launch processing and maintenance activities. Uses or monitors use of manual and automatic checkout and test equipment to check integrated missile, booster, and payload systems, subsystems, and related electronic equipment.
2.5. Performs laboratory R&D activities. Assembles, maintains, and operates specialized R&D systems such as laser, electromagnetic launcher, energetic materials, propulsion, composites, optical, satellite, space structures and power, and telescope. Maintains, modifies, and resolves problems associated with SE such as data acquisition, fiber optic, instrumentation, vacuum, wind tunnel, and control systems. Collects and analyzes R&D test data.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of electronic theory, circuitry, and schematic diagrams; and electronic principles of missiles, UAVs, spacelift boosters, and payloads.
3.2. Education. For entry into this specialty, completion of high school with courses in mathematics and physics is desirable.
3.3. Training. For award of AFSC 2M031/31A/31B, completion of a specific basic 3 level missile and space systems electronic maintenance course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2M051. Qualification in and possession of AFSC 2M031/31A/31B. Also, experience in functions such as maintaining or operating missiles, boosters, or UAVs.
3.4.2. 2M071. Qualification in and possession of AFSC 2M051. Also, experience performing or supervising missile maintenance, spacelift, or R&D activities.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For entry, award, and retention of AFSCs 2M011/31/51/71, 2MO31A, or 2M031B no record of emotional instability.
3.5.3. For award and retention of AFSCs 2M031/51/71, 2M031A, or 2M031B eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

4. *Specialty Shredouts:

Suffix	*Portion of AFS to Which Related*
A	ICBM
B	ALCM

NOTE: Suffix A and B is applicable to the 1- and 3-skill levels only.

AFSC 2M072, Craftsman **Apprentice AFSC 2M032***
AFSC 2M052, Journeyman **Helper AFSC 2M012***

MISSILE AND SPACE SYSTEMS MAINTENANCE
(Changed 30 Apr 94)

1. Specialty Summary. Services and maintains, or supervises these actions, on missiles, unmanned air vehicles (UAV), boosters, payloads, research and development (R&D) systems, environmental blast doors and valves, associated subsystems, components, and support equipment (SE). Launches, tracks, and recovers UAVs. Operates and maintains related equipment. Designs R&D systems. Performs acquisition and activation activities. Related DoD Occupational Subgroup: 632.

2. Duties and Responsibilities:
2.1. Performs missile maintenance actions at flightline, railhead, support base, and launch, launch control, and storage facilities, and insures compliance with international treaties. Inspects, repairs, adjusts, and replaces, or supervises these actions, on components and subcomponents. Mechanically or electrically connects or disconnects reentry systems, guidance and control sections, missile stages, propulsion systems, and secondary ordnance devices at the launch facility. Prepares missile and launch facility for simulated launch and follow-on test and evaluation. Performs preventive maintenance inspections and electrical tests on missiles; missile components; launch and launch control facilities; support vehicles; hydraulic, pneudraulic, and pneumatic systems; and SE. Initiates unsatisfactory reports, failure reports, or proposed modifications. Performs intercontinental ballistic missile (ICBM) coding activities.
2.2. Supervises transportation, assembly, and inspection of booster and payload functions, their subsystems, and SE. Directs and controls activities of contractor personnel during space launch activities. Supervises loading, transportation, unloading, inspection, assembly, and hoisting of boosters, payloads, component parts, and satellites at space launch facilities; preparation of space launch complexes; and erection and mating of booster sections, payloads, and SE. Supervises or performs preventive maintenance inspections. Practices and supervises safety procedures when handling nitrogen, liquid fuels, oxidizers, and ordnance devices. Uses technical publications to evaluate malfunctions, and recommends corrective action.
2.3. Performs and evaluates laboratory R&D activities. Assembles, installs, and tests R & D systems such as laser, electromagnetic launcher, energetic materials, propulsion, high powered microwave, satellite, telescope, and pointing and tracking. Maintains and resolves SE problems such as data acquisition, fiber optic, instrumentation, wind tunnel, high and low pressure gas, propellant mixing and molding, and exotic fuel storage systems.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of oxidizers and fuels properties and characteristics; basic hydraulics, pneudraulics, pneumatics, mechanics, and electricity; missile propulsion principles; and use of diagrams and schematics.
3.2. Education. For entry into this specialty, completion of high school with courses in mathematics and physics is desirable.
3.3. Training. For award of AFSC 2M032 or 2M032A, completion of a specific, basic 3 level missile and space systems maintenance course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2M052. Qualification in and possession of AFSC 2M032/32A. Also, experience in functions such as missile, space launch, R&D, and UAV maintenance, launch control, or preparation of launch facilities.
3.4.2. 2M072. Qualification in and possession of AFSC 2M052. Also, experience performing or supervising missile maintenance, spacelift, or laboratory R & D activities.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For entry, award, and retention of AFSCs 2M012/32/52 or 2M012A/32A no record of emotional instability.
3.5.3. For award and retention of AFSCs 2MO32/52/72 or 2M032A eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

4. *Specialty Shredouts:

Suffix	*Portion of AFS to Which Related*
A	ICBM

NOTE: Suffix A is applicable to the 1- and 3-skill levels only.

AFSC 2M073, Craftsman **Apprentice AFSC 2M033***
AFSC 2M053, Journeyman **Helper AFSC 2M013***

MISSILE AND SPACE FACILITIES
(Changed 30 Apr 94)

1. Specialty Summary. Installs, operates, maintains, and repairs, power generation and distribution systems, and environmental control and associated support systems and equipment for missile, spacelift, and research and development (R&D) facilities. Related DoD Occupational Subgroup: 633.

2. Duties and Responsibilities:
2.1. Performs or supervises preventative and operator maintenance on missile, spacelift, and R&D facilities. Troubleshoots, repairs, and services missile weapon systems, and spacelift and R&D equipment, facilities, and support equipment (SE). Included are power generation and distribution systems such as diesel generators, automatic switching units, manual switching gear, distribution and control panels, battery systems, and associated controls; environmental control systems; air conditioner, heating, ventilation, and refrigerant systems; and spacelift support systems and associated equipment. Services SE dealing with fuel, lubricants, hydraulic fluids, and air. Analyzes support facility and equipment malfunctions, and determines operational readiness. Solves interface problems between electrical and electronic equipment. Repairs or supervises maintenance of accessories and components of direct support and real-property installed equipment. Directs and controls activities of contractor personnel during space launch activities. Performs acquisition and activation activities.
2.2. Monitors, repairs, and operates missile spacelift, and R & D SE. Monitors or operates fault display, checkout panels, and test stands to detect system and component malfunctions. Tests electrical circuits and security, gas detection, and fire warning systems; and auxiliary power equipment, for readiness. Performs inspections and operates special vehicles.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electrical, mechanical, and pneumatic principles; and interpreting technical orders, workflow diagrams, blueprints, and schematics.
3.2. Education. For entry into this specialty, completion of high school with courses in mathematics and physics is desirable.
3.3. Training. For the award of AFSC 2M033 or 2M033A, completion of a specific basic 3 level missile and space facilities course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2M053. Qualification in and possession of AFSC 2M033/33A. Also, experience in functions such as maintaining and operating missile and space facilities, R&D facilities, or related support equipment.
3.4.2. 2M073. Qualification in and possession of AFSC 2M053. Also, experience performing or supervising power generation, missile, spacelift, or R&D facilities.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For entry, award, and retention of AFSCs 2M013/33/53 or 2M013A/33A, no record of emotional instability.
3.5.3. For award and retention of AFSCs 2M033/53/73 or 2M033A, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

4. *Specialty Shredouts

Suffix	*Portion of AFS to Which Related*
A	ICBM

NOTE: Suffix A is applicable to the 1- and 3-skill levels only.

Attachment 16

PRECISION MEASUREMENT EQUIPMENT LABORATORY CAREER FIELD (2P)

INTRODUCTION

The Precision Measurement Equipment Laboratory Career Field provides maintenance, modification, repair, calibration, and certification for test, measurement, and diagnostic equipment, including avionics-peculiar support equipment. It also implements methods and procedures for managing the US Air Force Metrology and Calibration (AFMETCAL) program as established and directed by AFI 21-113, *Air Force Metrology & Calibration (AFMETCAL) Program*. The AFMETCAL program is a composite of measurement standards and equipment, users, calibration data, and integrated planning to provide a disciplined US Air Force program to ensure reliability, accuracy, and traceability of systems, subsystems, and equipment.
The following is a complete listing of AFSCs for the Precision Measurement Equipment Laboratory Career Field.

PRECISION MEASUREMENT (2P)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
2P011 Precision Measurement Equip Lab	2P031 Precision Measurement Equip Lab	2P051 Precision Measurement Equip Lab	2P071 Precision Measurement Equip Lab	2P091 Precision Measurement Equip Lab	2P000 Precision Measurement Equip Lab

CEM Code 2P000
AFSC 2P091, Superintendent
AFSC 2P071, Craftsman
Journeyman AFSC 2P051
Apprentice AFSC 2P031
Helper AFSC 2P011

PRECISION MEASUREMENT EQUIPMENT LABORATORY
(Changed 31 Oct 94)

1. Specialty Summary. Performs and manages repair, calibration, and modification of test, measurement, and diagnostic equipment (TMDE), including precision measurement equipment laboratory (PMEL) standards and automatic test equipment. Supervises the process or use of TMDE to perform voltage, current, power, impedance, frequency, microwave, temperature, physical-dimensional, and radiac measurements. Related DoD Occupational Subgroup: 198.

2. Duties and Responsibilities:
2.1. Inspects, aligns, troubleshoots, an repairs malfunctions in laboratory standards, and manual, automated, weapon system peculiar TMDE. Inspects TMDE for preventive maintenance, cleanliness, and safety requirements. Performs equipment maintenance using theories of operation, block diagrams, schematics, logic trees, and software diagnostics. Isolates malfunctions to component level. Calibrates and certifies TMDE to technical data specifications ensuring traceability to Air Force Reference Standards. Inputs maintenance data; prepares reports, technical order improvement reports, special training requests, training quality reports, and modification proposals. Verifies equipment warranties. Provides training and manages technical order distributions. Handles, labels, and disposes of hazardous materials and waste according to environmental standards.
2.2. Plans, organizes, and coordinates mission support requirements. Analyzes maintenance data and performs trend analysis. Identifies mission essential TMDE and its impact on workload. Coordinates lateral support, command certification, or contract services. Evaluates procedures for storage, inventory, and inspection of property. Provides training and assistance to TMDE users. Maintains PMEL automated management systems (PAMS).
2.3. Develops and evaluates workload plans, budget, and support agreements. Manages PMEL total quality program (TQP) and radioisotope permits. Submits reports to higher headquarters, maintains a safe working environment, and ensures laboratory certification.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electrical, mechanical, physics, radiac, optics, and thermal principles; mathematics, and number systems; operating principles, use, care, and repair of TMDE and laboratory standards; analysis and interpretation of technical data, including block, schematic, wiring, and logic diagrams; troubleshooting techniques; calibration traceability, metrology techniques, laboratory practices, computer software, and operations principles; use of hand tools; procedures for training, supply, maintenance data collection, TQP, command certification, and radioisotope permits; equipment scheduling, production, and materiel control; facility requirements; and support equipment management.
3.2. Education. For entry into this specialty; completion of high school or General Education Development equivalency is mandatory. Also, courses in electronics, physics, trigonometry, algebra, and technical or vocational training in electronics or instrumentation are desirable.
3.3. Training. For award of AFSC 2P031, completion of a basic PMEL course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2P051. Qualification in and possession of AFSC 2P031. Also, experience in functions such as troubleshooting, repairing, modifying, aligning, calibrating, and or certifying TMDE.
3.4.2. 2P071. Qualification in and possession of AFSC 2P051. Also, experience in laboratory supervision and planning; advanced troubleshooting, repairing, modifying, and certifying complex TMDE.
3.4.3. 2P091. Qualification in and possession of AFSC 2P071. Also, experience in establishing training programs and requirements; planning supply, facility, and budget requirements; managing the TQP; establishing support agreements; and reimbursement procedures.
3.5. Other. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*, is mandatory.

Attachment 17

MAINTENANCE MANAGEMENT SYSTEMS CAREER FIELD (2R)

INTRODUCTION

The Maintenance Management Systems Career Field includes planning and scheduling aircraft, missiles, and associated equipment; operating and maintaining the management information system; and collecting, analyzing, and presenting maintenance data in maintenance organizations. Such organizations include aircraft, missile, avionics, communications-electronics, and munitions maintenance. The following is a complete listing of AFSCs for the Maintenance Management Systems Career Field.

MAINTENANCE MANAGEMENT SYSTEMS (2R)											
Input or Helper Level		**Apprentice or Semiskilled Level**		**Journeyman or Skilled Level**		**Craftsman or Advanced Level**		**Superintendent Level**		**Chief Enlisted Manager Level**	
2R011	Maint Data Sys Analysis	2R031	Maint Data Sys Analysis	2R051	Maint Data Sys Analysis	2R071	Maint Data Sys Analysis	2R091	Maint Data Sys Analysis	2R000	Maint Data Sys Analysis
2R111	Maint Scheduling	2R131	Maint Scheduling	2R151	Maint Scheduling	2R171	Maint Scheduling	2R191	Maint Scheduling	2R100	Maint Scheduling

CEM Code 2R000
AFSC 2R091, Superintendent
AFSC 2R071, Craftsman

Journeyman AFSC 2R051
Apprentice AFSC 2R031
Helper AFSC 2R011

MAINTENANCE DATA SYSTEMS ANALYSIS
(Changed 31 Oct 94)

1. Specialty Summary. Monitors, collects, assembles, and audits data for reports and briefings. Initiates special studies and investigations, and performs statistical analysis. Reports findings to managers with recommendations. Informs managers of significant factors affecting the mission. Manages management information systems (MIS), and coordinates with customers. Related DoD Occupational Subgroup: 558.

2. Duties and Responsibilities:
2.1. Collects, monitors, audits, evaluates, and analyzes MIS data. Periodically audits source data for accuracy, timeliness, and compliance with directives. Collects and maintains data for use in analysis reports, studies, and problem identification. Using statistical techniques, interprets findings from data, identifies trends and significant deviations, and recommends corrective action. Analyzes deficiencies in areas such as equipment performance, material consumption, scheduling, management, and resources; their impact on the maintenance mission; and results of corrective actions. Prepares visual media for analysis studies. Presents briefings to senior managers.
2.2. Maintains and operates MIS. Controls, manages, and maintains MISs. Coordinates, effects development, and schedules MIS products, retrievals, and other programs. Identifies problems and recommends and applies corrective actions related to MIS operation and maintenance. Identifies, corrects, and repairs database problems. Coordinates with information processing center or regional processing center to ensure automated systems capability and compatibility with customer requirements are met.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: operations and logistics organization management and procedures applying to aircraft, missiles, communications-electronics, space systems, or related equipment; applied statistical, analytical, and presentation techniques and concepts; data systems design procedures; MIS and small computer operation and use; and concepts and application of directives.
3.2. Education. For entry into this specialty, computer literacy and completion of high school with courses in algebra, English composition, effective writing, and typing are desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 2R031. Completion of a basic maintenance data systems analysis course.
3.3.2. 2R071. Completion of an advanced maintenance data systems analysis course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2R051. Qualification in and possession of AFSC 2R031. Also, experience in analysis activities.
3.4.2. 2R071. Qualification in and possession of AFSC 2R051. Also, experience performing or supervising analysis functions and activities.
3.4.3. 2R091. Qualification in and possession of AFSC 2R071. Also, experience managing analysis activities.
3.5. Other. Not used.

CEM Code 2R100
AFSC 2R191, Superintendent
AFSC 2R171, Craftsman
Journeyman AFSC 2R151
Apprentice AFSC 2R131
Helper AFSC 2R111

MAINTENANCE SCHEDULING

1. Specialty Summary. Plans, schedules and organizes use and maintenance of aircraft, engines, munitions, and associated aerospace ground equipment (AGE), including test, measurement, and diagnostic equipment (TMDE). Documents and maintains aircraft, missiles, munitions, and associated AGE records. Develops generation flow plans for units required to meet emergency war order and wartime tasking. Analyzes maintenance information and requirements, and develops visual presentations. Monitors maintenance management scheduling effectiveness. Related DoD Occupational Subgroup: 558.

2. Duties and Responsibilities:
2.1. Plans and schedules aerospace vehicle maintenance and use requirements. Develops plans and establishes work schedules to meet mission requirements. Schedules aerospace vehicles, AGE, munitions and TMDE through maintenance phases. Prepares weekly, monthly, and quarterly use schedules for known maintenance and operational mission and training requirements. Coordinates with base activities to ensure support is available to meet schedules. Reports aerospace vehicle and selected equipment inventory data. Assists maintenance quality effort in developing improvements.
2.2. Schedules and monitors workload requirements. Ensures the maintenance aircraft coordination center supervisor, and appropriate logistics and operations commanders are advised of maintenance capabilities, limiting production factors, and adherence to maintenance schedules. Uses automated system to schedule and monitor maintenance activities' workload. Administers work control by authorizing jobs, work priorities, and completion times.
2.3. Maintains automated information and records to support applicable systems. Coordinates with maintenance data systems analysis and establishes automated support requirements.
2.4. Maintains weapon systems records. Reviews, evaluates, and files documented information for planning and scheduling maintenance actions. Maintains historical and flight status records of weapons and support systems. Ensures accurate documentation of time compliance technical orders, time change items, and special inspections.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: aircraft, engines, and associated equipment; maintenance and automated procedures applying to planning, scheduling, and documenting; concepts and application of maintenance directives; automated system status; operational, inspection and time change; delayed discrepancy; TCTO; and engine subsystems.
3.2. Education. For entry into this specialty, completion of high school with courses in basic mathematics is desirable.
3.3. Training. For award of AFSC 2R131, completion of a basic maintenance scheduling course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2R151. Qualification in and possession of AFSC 2R131. Also, experience in maintenance scheduling and documenting.
3.4.2. 2R171. Qualification in and possession of AFSC 2R151. Also, experience performing or supervising maintenance scheduling and documenting functions.
3.4.3. 2R191. Qualification in and possession of AFSC 2R171. Also, experience managing maintenance scheduling activities.
3.5. Other. Not used.

Attachment 18

SUPPLY CAREER FIELD (2S)

INTRODUCTION

The Supply Career Field encompasses managing, administrating, and operating supply systems and activities. This field includes functions of designing, developing, analyzing, and operating supply systems; requirements determination and computation; operating and managing materiel storage warehouses; equipment review and validation; records maintenance; inventory and distribution control; and inspection and identification of property.

Excluded from this field are managing Defense Reutilization and Marketing Offices, and operation and maintenance of organizational bench stocks, tool cribs, equipment custodial responsibilities, and other duties not related solely to accomplishing the supply mission. The following is a complete listing of AFSCs for the Supply Career Field.

SUPPLY (2S)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
2S011 Supply Mgt	2S031 Supply Mgt	2S051 Supply Mgt	2S071 Supply Mgt	2S090 Supply Mgt	2S000 Supply
2S012 Supply Systems Analysis	2S032 Supply Systems Analysis	2S052 Supply Systems Analysis	2S072 Supply Systems Analysis		

CEM Code 2S000 **Superintendent AFSC 2S090**

SUPPLY MANAGEMENT
(Changed 31 Oct 98)

★1. Specialty Summary. Manages Base Supply activities involved in developing, operating, implementing, and analyzing manual and automated supply systems. Manages item and monetary accounting procedures, inventory control, financial planning, and receipt, storage, and issue of supplies and equipment to base customers. Analyzes supply tasks and uses microcomputer technologies to enhance supply operations. When assigned to organizations outside the supply complex, manages supply tasks related directly to the operation of the Standard Base Supply System (SBSS) and Integrated Logistics System-Supply (ILSS). Related DoD Occupational Subgroup: 551.

★2. Duties and Responsibilities:
2.1. Plans and organizes standard base supply management activities for the Chief of Supply. Plans and directs the development, implementation, and operation of automated and manual supply systems. Observes supply operations, analyzes operational data, reviews computer generated data and takes the necessary steps to improve supply systems or correct deficiencies.
2.2. Directs supply management activities for the Chief of Supply. Directs procedures for determining requirements and preparing financial plans and reports. Establishes stock control levels for computation of requirements. Evaluates facilities to ensure adequate property storage, inspection, and delivery to base organizations. Directs supply operations, analyzes operational data, and reviews systems generated data to improve supply systems.
2.3. Directs the operation of the supply liaison function when assigned to base operation. Ensures effective support is provided to aircraft, civil engineering, transportation, and ground communications maintenance activities. Acts as an extension of the SBSS/ILSS and ensures supply tasks are accomplished to support the using organization. Assignment of supply personnel to organizations outside base supply is accomplished when the supply functional community determines that a decentralized operation better supports the base organization.
2.4. Establishes personnel controls, training programs, and supply administrative procedures. Monitors unit manning documents and allocates personnel to authorized positions. Oversees unit personnel readiness. Participates in mobility planning, submission of resources and training system data, and evaluates and approves unit type code changes.

★3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of areas of manual and automated supply accounting procedures, mathematics, operational techniques used in logistics functions such as supply, transportation, maintenance, and procurement.
3.2. Education. Not used.
3.3. Training. Not used.
3.4. Experience. For award of AFSC 2S090, qualification in and possession of AFSC 2S071/72 is mandatory. Also, experience is mandatory managing functions such as computing stock control levels; receiving, storing, and issuing property; and automated systems.
3.5. Other. Not used.

AFSC 2S071, Craftsman **Apprentice AFSC 2S031**
AFSC 2S051, Journeyman **Helper AFSC 2S011**

SUPPLY MANAGEMENT
(Changed 31 Oct 98)

★1. Specialty Summary. Supervises and performs item and monetary accounting and inventory stock control, financial planning, and funds control. Computes requirement, determines allowance, and researches and identifies supplies and equipment requirements. Supervises and performs operations involved in storage, inspection, identification, and receipt of property. Responsible for facility safety and security. Conducts inventories. Operates automated equipment, special purpose government vehicles, and materiel handling equipment. Related DoD Occupational Subgroup: 551.

★2. Duties and Responsibilities:
2.1. Performs administrative and management functions. Performs and monitors management (and procedural application) of manual or automated inventory control actions. Computes and accumulates data for use in analysis. Helps develop work standards and methodology. Performs inventories, and ensures timely correction of discrepancies. Prepares, analyses, and evaluates reports, procedures, and policy data. Provides customer service.
2.2. Inspects and evaluates inventory management activities. Periodically inspects activities for compliance with policies, procedures, and directives for accuracy. Analyzes reports and records activities, reports inefficiencies to supervisors, and recommends corrective actions to improve operations. Evaluates supply efficiency and equipment management activities. Uses management products to evaluate accounts.
2.3. Provides support to maintenance activities. Coordinates with maintenance activities on repairable component actions. Controls and issues bench stock property. Obtains material required for equipment modification, periodic component exchange, and bills of material in support of maintenance. Accounts for all items contained in mobility readiness spares packages.
2.4. Inspects and identifies property. Inspects conditions of property received. Compares property with procurement specifications. Identifies property, using technical data and blueprints, and identifies components to subassemblies. Performs shelf life inspections of stock.
2.5. Performs technical material functions. Develops methods and improves procedures for storage and issuing property. Plans use of storage facilities. Inventories supplies and equipment. Prepares statements of facts surrounding property loss, damage, or destruction through causes other than fair wear and tear. Establishes property locator system.
2.6. Issues, delivers, and transfers property. Issues, ships, delivers or transfers property from issue, shipping, or transfer destination points through coordination with customers. Controls issue of classified sensitive, and controlled items, obtaining custody or document receipts. Compiles data for storage and occupancy planning reports. Pulls, issues, and bins bench stock property.
2.7. Plans and schedules materiel storage and distribution activities. Ensures availability, and controls use of space, materiel handling equipment, and required spare parts. Establishes fire prevention and safety standards, and ensures compliance. Determines requirements for storage, including those for classified, sensitive, radioactive, hazardous, mobility readiness spares packages and flammable property. Ensures protection of personnel. Prevents deterioration, contamination, and destruction of property. Controls stock rotation to prevent deterioration and permit maximum use of dated and technical order compliance assets. Coordinates with customers regarding priority of deliveries and destination points. Establishes controls to deliver expedited requests within prescribed time limits. Supervises central receiving activity; coordinates requirements for shipping with transportation. Supervises reparable processing center. Maintains assigned unit vehicles.

★3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: basic mathematics, supply policies and procedures, Air Force property accounting, stock and inventory control, accountability and responsibility, principles of property accounting through manual or automated data processing (ADP), storage methods, warehouse control (receipt, issue, and disposal), materiel handling techniques, methods of preparing and maintaining supply records, manual and automated supply accounting systems, logistics principles and interactions (supply, maintenance, transportation, and procurement), hazardous material and waste procedures; and supply deployment or contingency operations.
3.2. Education. For entry into this AFSC, completion of high school with a course in mathematics is desirable.
3.3. Training. For award of AFSC 2S031, completion of a basic supply management course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2S051. Qualification in and possession of AFSC 2S031. Also, experience is mandatory in functions such as preparing and maintaining documentation and records associated with inventory management actions, receipt, storage, and delivery of

property, issuing and transferring property, conducting inventories, or segregating and preparing property for storage and identifying items and condition of property.

3.4.2. 2S071. Qualification in and possession of AFSC 2S051. Also, experience is mandatory supervising functions such as establishing and maintaining reporting and management procedures for stock consumption, analyzing trends in stockage policy and customer support, and supervising storage facilities.

3.5. Other. Not used.

AFSC 2S072, Craftsman **Apprentice AFSC 2S032**
AFSC 2S052, Journeyman **Helper AFSC 2S012**

SUPPLY SYSTEMS ANALYSIS
(Changed 31 Oct 98)

★1. Specialty Summary. Management of supply systems activities. Employs industry standard systems analysis techniques to manage and control supply systems processes for the Chief of Supply. Designs and develops information retrieval using standard report generators, structured query language processors and other program applications. Manages the microcomputer and supply related microcomputer programs for the supply complex. Develops procedures for the operation of automated supply systems and manages automated supply systems LANs and WANs in the supply complex. Functions as a liaison between the Chief of Supply and Defense Megacenters when assigned to the Megacenters. Controls and operates the Remote Processing Station (RPS) and remote terminal hardware under the Standard Base Supply System (SBSS). Related DoD Occupational Subgroup: 551.

★2. Duties and Responsibilities:
2.1. Plans and supervises supply systems activities. Plans, develops, and implements schedules for managing the operations of the base supply automated systems. Serves as the technical advisor to the Chief of Supply on supply systems matters. Analyzes supply computer operations and supply data and advises the Chief of Supply on the effectiveness of automated supply operations. Controls and operates the RPS and associated equipment. Performs operator maintenance on the RPS equipment and provides technical assistance to remote terminal users with the SBSS. Applies system security policy and procedures to prevent unauthorized changes to supply information. Maintains technical publications on operational equipment. Sets up new terminals and microcomputers to interface with the Standard Base Level Computer. Prepares automated supply computer system and peripheral devices for processing. Monitors systems processing and corrects processing errors. Inspects equipment operation for compliance with manufacturer and Air Force standards and maintains technical files on equipment operation.
2.2. Performs supply systems control functions. Acts as technical advisor to the Chief of Supply concerning management and analysis of computerized supply data. Monitors Defense Data Network traffic through use of the Supply Interface System and takes corrective action. Troubleshoots problems with equipment and communications. Reviews data base integrity checks and makes necessary corrections. Observes systems operations and reviews data generated. Analyzes new changes and systems operation from lateral and higher headquarters and develops new concepts to enhance supply data collection and processing requirements. Evaluates and controls data retrieval requests for standard report generators and structured query language processor programs. Manages the microcomputer software library of supply requirements.
2.3. Interfaces with supply systems activities. Maintains liaison with the Standard Systems Group (SSG), MAJCOMs and the servicing Defense Megacenters to identify and correct problems. Coordinates computer systems changes and report schedules with supply work centers to ensure the most efficient use of on-line computer time. Assists in organizing and collecting supply data necessary to meet local requirements. Distributes supply computer products. Orders microcomputer hardware and software requirements for the supply complex. Provides subject matter expert and technical assistance to satellite (ANG/AFRC) RPS functions. Performs RPS duties in regionalized centers or Defense Megacenters when SSBS computer support is regionalized.

★3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: data processing and electronic data processing equipment; automated digital network processing procedures; basic programming techniques; operational techniques in functional areas of supply, maintenance, transportation, procurement, accounting and finance, and functions of Air Force data systems; Air Force property accounting; and base supply policies and procedures.
3.2. Education. Not used.
3.3. Training. For award of 2S032, completion of the apprentice supply systems course is mandatory.
3.4. Experience. The following are mandatory for AFSC as indicated:
3.4.1. 2S052. Qualification in and possession of AFSC 2S032. Also, experience in functions such as preparing, operating, and operator maintenance of electronic equipment.
3.4.2. 2S072. Qualification in and possession of AFSC 2S052. Also, experience supervising and performing supply systems functions.
3.5. Other. Not used.

Attachment 19

TRANSPORTATION AND VEHICLE MAINTENANCE CAREER FIELD (2T)

INTRODUCTION

The Transportation and Vehicle Maintenance Career Field encompasses transportation functions involving moving personnel, materiel, and household goods by military and commercial transportation facilities. Included are packaging; handling and loading freight and baggage on military aircraft; scheduling military air transportation of personnel and materiel; briefing and caring for passengers on military aircraft; arranging for commercial air, rail, motor, and water transportation of personnel, material, and household goods; dispatching and operating vehicles; and operating yard locomotives.

Vehicle maintenance functions of this career field include inspecting, repairing, and modifying general purpose vehicles and related equipment; base maintenance equipment; special purpose vehicles; vehicle body maintenance, repair, and refinishing; vehicle maintenance analysis; and related functions.

Excluded from this career field are maintaining aerospace ground equipment used in direct support of aircraft and missiles, and maintaining fixed power production equipment. Also excluded are functions of scheduling, clearing, and dispatching aircraft. The following is a complete listing of AFSCs for the Transportation and Vehicle Maintenance Career Field.

TRANSPORTATION AND VEHICLE MAINTENANCE (2T)											
Input or Helper Level		**Apprentice or Semiskilled Level**		**Journeyman or Skilled Level**		**Craftsman or Advanced Level**		**Superintendent Level**		**Chief Enlisted Manager Level**	
2T011	Traffic Mgt	2T031	Traffic Mgt	2T051	Traffic Mgt	2T071	Traffic Mgt	2T091	Traffic Mgt	2T000	Traffic
2T111	Vehicle Operations	2T131	Vehicle Operations	2T151	Vehicle Operations	2T171	Vehicle Operations	2T191	Vehicle Operations	2T100	Vehicle Operations
2T211	Air Transportation	2T231	Air Transportation	2T251	Air Trans-portation	2T271	Air Trans-portation	2T291	Air Trans-portation	2T200	Air Transportation
2T311	Spec Purpose Vehicle & Equip Maint	2T331	Spec Purpose Vehicle & Equip Maint	2T351	Special Purpose Vehicle & Equip Maint	2T370	Vehicle & Equip Maint	2T390	Vehicle Maint	2T300	Vehicle Maint
2T312	Spec Vehicle Maint	2T332	Spec Vehicle Maint	2T352	Spec Vehicle Maint						
A	Firetrucks	A	Firetrucks	A	Firetrucks						
B	Refueling Vehicle	B	Refueling Vehicle	B	Refueling Vehicle						
2T314	General Purpose Vehicle Maint	2T334	General Purpose Vehicle Maint	2T354	General Purpose Vehicle Maint						
2T315	Vehicle Body Maint	2T335	Vehicle Body Maint	2T355	Vehicle Body Maint						
2T317	Vehicle Maint Control & Analysis	2T337	Vehicle Maint Control & Analysis	2T357	Vehicle Maint Control & Analysis	2T377	Vehicle Maint Control & Analysis				

CEM Code 2T000
AFSC 2T091, Superintendent
AFSC 2T071, Craftsman
Journeyman AFSC 2T051
Apprentice AFSC 2T031
Helper AFSC 2T011

TRAFFIC MANAGEMENT
(Changed 31 Oct 98)

1. Specialty Summary. Performs and manages traffic management activities. Uses military and commercial transportation to move personnel, eligible dependents, material, and property. Packages, classifies, and arranges personal property and cargo for shipment or storage. Related DoD Occupational Subgroup: 553.

★2. Duties and Responsibilities:
2.1. Plans and organizes traffic management activities. Receives and packages items for shipment or storage. Prepares budget estimates for materials and equipment. Inspects items for identity, quantity, and condition. Segregates items requiring special handling. Considers cost and special handling requirements when selecting preservation and packing material. Certifies hazardous cargo to be moved by surface and air. Advises on procurement and distribution actions. Ensures convoy, hazardous, or oversized permits are required before movement.
2.2. Directs traffic management activities. Identifies, marks, and labels cargo and personal property for shipment or storage. Inspects shipments to determine condition. Verifies carrier service. Initiates discrepancy reports. Determines work priority. Monitors preservation, packaging and handling of cargo and personal property being shipped or stored. Selects and arranges travel routes for individuals and groups. Verifies commercial travel office routing and fares. Resolves administrative and operational problems and authorizes deviation from procedures.
2.3. Counsels personnel and eligible dependents on passenger and personal property movements. Reviews official travel orders and determines transportation entitlements.
2.4. Uses carrier tariffs and rates to determine mode and cost of commercial transportation to move personal property. Arranges shipment and storage of personal property. Makes cost comparisons between various modes of transportation, and between government and commercial storage facilities. Validates need for and use of temporary storage. Monitors equipment availability, service to required destinations under current operating rights, shipping status, condition of household goods packing, and local drayage contracts.
2.5. Classifies and arranges cargo for movement. Determines and schedules proper carrier equipment for loading and unloading. Converts military nomenclature to commercial freight classification. Determines weight of commodities to be shipped. Consolidates and routes shipments. Develops and maintains data reference files. Determines cargo priority, and schedules movement accordingly. Coordinates pickup and delivery of cargo shipments. Coordinates with base activities to control flow of inbound and outbound cargo. Provides transportation data and support to contracting.
2.6. Maintains and issues transportation documents. Prepares passenger related travel documents. Processes pay adjustment vouchers for cost charge travel, and issues service and purchase orders. Computes and documents excess transportation costs. Prepares re-weighs and loss and damage reports. Compiles data for comparison with other shipment modes. Prepares personal property shipment applications. Establishes and maintains personal property case files, rate printouts, basic agreements, carrier tenders of service, accountable document registers, and military or carrier tariffs for household goods movements. Processes contractor invoices and verifies services performed. Prepares shipment discrepancy reports. Converts commercial documents to government bills of lading. Issues diversion and reconsignment certificates.
2.7. Operates and maintains material handling equipment, such as forklifts and pallet and hand-trucks. Operates equipment including machines that weigh, band, staple, tape, and seal. Operates woodworking equipment. Operates automated data processing equipment to prepare, transmit, and receive transportation transaction data.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: federal and military transportation regulations, instructions, and directives; passenger and personal property entitlements; quality assurance evaluation procedures, United States and foreign customs regulations, and warehousing procedures; military passenger, freight, and personal property rate computations; packaging methods, specifications, and orders; hazardous cargo requirements; blocking, bracing, and tiedown principles; and carrier capabilities and procedures for movement of passengers, cargo, and personal property in military and commercial air, rail, truck, and water systems.
3.2. Education. For entry into this specialty, completion of high school with a basic computer course and a course in typing is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 2T031. Completion of a basic traffic management course.
3.3.2. 2T071. Completion of the advanced traffic management course.

3.4. Experience. The following experience is mandatory for award of the AFSC indicated:

3.4.1. 2T051. Qualification in and possession of AFSC 2T031. Also, experience in functions such as selecting passenger routes, advising on passenger travel, and obtaining travel reservations; maintaining records and reports; or selecting mode and carrier for movement of personal property and cargo.

3.4.2. 2T071. Qualification in and possession of AFSC 2T051. Also, experience supervising functions such as preserving, packaging, packing, and quality control of personal or government property, or arranging transportation for DoD personnel.

3.4.3. 2T091. Qualification in and possession of AFSC 2T071. Also, experience managing moving personal property, cargo, and passengers, including classification and freight routing and carrier selection.

3.5. Other. For entry, award, and retention of AFSCs 2T011/31/51, qualification to operate government vehicles according to AFMAN 24-309, *Vehicle Operations*, is mandatory.

CEM Code 2T100
AFSC 2T191, Superintendent
AFSC 2T171, Craftsman
Journeyman AFSC 2T151
Apprentice AFSC 2T131
Helper AFSC 2T111

VEHICLE OPERATIONS

1. Specialty Summary. Performs and manages vehicle operations functions and activities. Included are dispatching, operating, and servicing motor vehicles such as general and special purpose, base maintenance, and material handling vehicles. Performs fleet management duties, accounts for vehicle fleet, issues driver's licenses, and conducts analyses. Plans, organizes, and directs vehicle transportation to support operational missions. Related DoD Occupational Subgroup: 811.

2. Duties and Responsibilities:
2.1. Operates, cleans and services motor vehicles. Conducts preoperating vehicle inspections and documents results. Performs operator maintenance. Prepares, reviews, and maintains vehicle operator forms, records, and reports on vehicle operation, inspection, and dispatching activities. Performs dispatching duties. Controls equipment and performs custodial duties.
2.2. Plans and schedules vehicle operations activities and transportation support requirements. Designates and coordinates shuttle bus and mass transportation requirements. Manages school bus transportation. Develops taxi zones or stands. Plans and implements convoy operations.
2.3. Maintains records and logs. Evaluates services provided by vehicle operations. Uses vehicle operations computerized systems. Compiles operating costs and maintains expense records. Controls and safeguards trip kit and packet supplies and equipment such as national credit cards, tickets, and fuel coupons.
2.4. Performs fleet management functions. Develops base vehicle priority buy program, priority recall list, and rotation plan. Performs general fleet and operations analyses. Manages vehicle control program. Administers driver qualification and licensing program. Performs as quality assurance evaluator.
2.5. Manages work centers. Establishes work methods and performance standards. Develops operating and administrative procedures. Organizes the unit. Reviews report and statistical data. Develops cost center resource requirement estimates. Allocates and inspects facilities and equipment. Conducts self inspections. Investigates accidents or incidents within functional areas. Coordinates manning requirements with manpower personnel.
2.6. Negotiates support agreements. Advises commander, staff, and operating agencies of availability, limitations, and requirements for motor vehicles and personnel. Reviews contingency and mobility plans to determine requirements, and develops checklists. Serves as liaison with state, local, and host nation authority on licensing matters; ensures compliance by base agencies.
2.7. Manages Air Force equipment management system program for vehicle fleet. Develops alternative sources of support for operational vehicle shortfalls. Manages vehicle custodial account and vehicle authorization and utilization program. Prepares and defends base level submission for central appropriated funds procurement of motor vehicles and other budgetary accounts. Monitors and coordinates on military construction projects.
2.8. Establishes a local permissible operating distance. Evaluates and approves special requests. Reviews, interprets, and validates records, directives, and documents. Manages the vehicle leasing program. Develops and monitors contract transportation services. Coordinates with base contracting.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: vehicle operation and official use of government vehicles and equipment; operation of dispatch, fleet management, and driver qualification and licensing functions; evaluating, staffing, and negotiating transportation support agreements; evaluating requirements and developing operating procedures to support contingency and mobility operations; custodial responsibilities; budget preparation; and developing and monitoring contracted services.
3.2. Education. For entry into this specialty, completion of high school is desirable.
3.3. Training. For award of AFSC 2T131, completion of a basic vehicle operations course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2T151. Qualification in and possession of AFSC 2T131. Also, experience performing vehicle operations functions such as inspecting, servicing, operating, scheduling, and dispatching vehicles; controlling equipment and performing custodial duties; or preparing, reviewing, and maintaining vehicle forms and records.
3.4.2. 2T171. Qualification in and possession of AFSC 2T151. Also, experience performing or supervising functions such as vehicle dispatch, planning and scheduling transportation support, performing fleet and operations analyses, administering driver qualification and licensing program, developing cost center resource estimates, or investigating accidents or incidents.
3.4.3. 2T191. Qualification in and possession of AFSC 2T171. Also, experience managing vehicle operations functions such as vehicle dispatch, fleet management, registered equipment management, operator records, and licensing.

3.5. Other. For entry, award, and retention of these AFSCs, qualification to operate government vehicles according to AFMAN 24-309, *Vehicle Operations*, is mandatory.

CEM Code 2T200
AFSC 2T291, Superintendent
AFSC 2T271, Craftsman

Journeyman AFSC 2T251
Apprentice AFSC 2T231
Helper AFSC 2T211

AIR TRANSPORTATION
(Changed 31 Oct 98)

1. Specialty Summary. Performs and manages air transportation activities. Plans, schedules and processes eligible air cargo passengers and mail. Loads and unloads aircraft. Prepares and maintains air movement records and reports. Performs fleet services on aircraft. Related DoD Occupational Subgroup: 553.

★2. Duties and Responsibilities:
2.1. Plans and organizes air transportation activities. Justifies personnel, equipment, and facilities required to accomplish air transportation activities. Determines supplies and facilities required, and allocates equipment. Establishes procedures for loading passenger and cargo aboard aircraft, processing passengers, and preparing records and reports. Provides handling services of special category passengers. Determines and implements necessary safety and security precautions for handling and storing dangerous materials, special cargoes, mail, and baggage. Plans and selects fleet services. Preplans and computes aircraft load distribution. Supervises use of materials handling equipment and cargo loading and unloading operations.
2.2. Directs air transportation activities. Supplements policies and directs supervisory personnel providing cargo and passenger loading and unloading services, and performing airdrop activities. Establishes procedures for passenger and aircraft clearance through international border clearance agencies. Inspects airlift activities for compliance and recommends corrective action. Conducts personnel and equipment management surveys, and provides technical assistance as required.
2.3. Verifies eligibility of cargo and mail offered for airlift. Reviews passenger travel authorizations for validity and accuracy. Ensures all cargo documentation, packaging, labeling and marking requirements, and all border clearance requirements have been met. Provides information on schedules, routes, air movement requirements, baggage limitations, and local facilities for passengers. Performs air transportation and fleet service functions. Requisitions, stores, and issues expendable and nonexpendable items for use on aircraft. Ensures aircraft cleanliness and maintains records on fleet service equipment, supplies and activities.
2.4. Prepares, completes, and maintains air movements records, documents, and reports. Prepares and maintains travel forms and weight and balance records. Applies common user and international tariff rates, collects fares, and accounts for documents and monies.
2.5. Checks in passengers, processes, schedules, transports, and escorts passengers to and from aircraft. Determines quantity and type of cargo to be loaded according to allowable aircraft cabin load. Selects, assembles, palletizes, and transports aircraft cargo loads to and from aircraft and storage areas. Checks cargo against manifests, and annotates overage, shortage, or damage. Secures cargo with appropriate devices and equipment. Operates terminal security equipment, and conducts passenger and baggage security inspections. Exercises necessary safety and security precautions in handling and storing hazardous or special cargoes and mail. Expedites cargo movement as necessary.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: passenger and cargo movement functions to include transport aircraft types, capabilities, and configuration; weight and balance factors; airlift transportation directives and documentation; cargo securing techniques; border clearance requirements; operation of materials handling and other types of loading equipment or devices, fleet service functions; automated data processing equipment and its application in airlift activities; passenger service functions, and customer relations principles; airdrop and aerial delivery techniques and equipment.
3.2. Education. For entry into this specialty, completion of high school with courses in English and mathematics is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 2T231. Completion of a basic air transportation course.
3.3.2. 2T271. Completion of the advanced air transportation course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2T251. Qualification in and possession of AFSC 2T231. Also, experience in functions such as loading and unloading aircraft; operating automated or manual materials handling and other loading equipment; or processing, scheduling, and maintaining records relating to passenger and cargo movement.
3.4.2. 2T271. Qualification in and possession of AFSC 2T251. Also, experience supervising functions such as preparing aircraft load plans; loading and unloading aircraft; operating automated and manual materials handling equipment; and processing, scheduling, maintaining records on passenger movement by airlift.

3.4.3. 2T291. Qualification in and possession of AFSC 2T271. Also, experience managing passenger, cargo, mail, and airlift and airdrop activities.

3.5. Other. For entry, award, and retention of AFSCs 2T211/31/51, qualification to operate government vehicles according to AFMAN 24-309, *Vehicle Operations*, is mandatory.

CEM Code 2T300 **Superintendent AFSC 2T390**

VEHICLE MAINTENANCE
(Changed 31 Oct 97)

1. Specialty Summary. Manages vehicle maintenance activities and programs. Activities include the inspection, diagnostics, repair, modification, refinishing, and data collection for the vehicle and equipment fleet. Programs include maintenance analysis, quality assurance, training and material control. Related DoD Occupational Subgroup: 704.

2. Duties and Responsibilities:
2.1. Plans, organizes, and directs vehicle maintenance activities. Ensures adequate manpower authorizations, personnel, tools, equipment, spare parts, and work space are available. Establishes production goals, quality controls, operating instructions, annual budgets, and self-inspection programs. Maintains liaison with users and supply organizations regarding spare parts requirements. Promotes customer satisfaction. Initiates action for interservice and intraservice vehicle maintenance support requests from other Department of Defense agencies. Oversees maintenance activities responsible for vehicle repair, analysis, training, contractor operated parts store (COPARS) and contingency planning to ensure effective use of maintenance resources. Develops identification and processing procedures for vehicle abuse, accident and incident cases.
2.2. Manages the vehicle maintenance functions of repair, control, analysis, parts supply, diagnostics, and quality assurance to ensure cost effective, efficient operations. Provides accountability for tools, equipment, space, supplies, and facilities. Validates limited technical inspection reports, depot level repair requirements, manpower changes, requirements, and facility upgrades. Monitors the COPARS contractor and identifies problems to the contract administrator. Supervises maintenance programs affecting depot level repairs, shipment of vehicles, maintenance priorities, record keeping, material deficiency reporting, scheduled maintenance, and analysis to ensure regulatory compliance. Oversees the collection, control and disposition of hazardous and toxic waste material accumulations. Ensures compliance with developed safety practices, policies, and standards.
2.3. Periodically inspects maintenance, repair sections, analysis, and material control. Determines operational status and solves complex maintenance, supply, and personnel problems. Analyzes maintenance reports, past and current performance, and inspection reports to ensure cost effective, timely preventive maintenance, repairs and rebuilding of vehicular equipment. Identifies unfavorable trends as they occur. Initiates corrective actions and revises procedures to improve effectiveness and eliminate deficiencies.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electrical, mechanical, and hydraulic principles applying to special and general purpose vehicles; maintenance policies and procedures; maintenance analysis activities; contract administration and evaluation; supply and inventory management; using and interpreting wiring diagrams, blueprints, publications and test equipment; technical order and material deficiency reporting systems; on-line vehicle interactive management system; base supply procedures, table of allowances; training requirements and programs; Air Force manpower standards and their application; facility requirements; management's and Air Force Occupational Safety and Health standards.
3.2. Education. Not used.
3.3. Training. Not used.
3.4. Experience. Qualification in and possession of AFSC 2T370/77. Also, experience is mandatory managing functions such as vehicle maintenance activities.
3.5. Other. Not used.

Craftsman AFSC 2T370

VEHICLE AND EQUIPMENT MAINTENANCE
(Changed 31 Oct 97)

1. Specialty Summary. Supervises and performs vehicle and equipment maintenance activities and functions, including diagnostics, repairs, rebuilding components and assemblies, fabrication of parts, replacement of body panels, and refinishing of exteriors. Ensures compliance with vehicle maintenance policies, directives, and procedures. Related DoD Occupational Subgroup: 610.

2. Duties and Responsibilities:
2.1. Plans and schedules vehicle, equipment, and allied trades maintenance activities. Plans and controls work methods, production schedules, operating procedures, and performance standards. Monitors established maintenance priorities, and determines mission requirements. Ensures vehicles, equipment, tools, parts, and manpower are available to support mission requirements.
2.2. Inspects and evaluates vehicles, equipment, and allied trades functions. Diagnoses malfunctions of major assemblies and subassemblies to determine the extent of repair or replacement, or recommend disposition of vehicles and equipment. Inspects repaired or rebuilt parts and equipment to ensure work conforms to standards. Inspects equipment for required modification and installation of safety devices. Ensures shop equipment is inspected and serviced at required intervals and that unserviceable tools and equipment are removed from service and their condition tagged. Identifies and initiates materiel deficiency reports at work center level.
2.3. Performs vehicle, equipment, and allied trades maintenance functions. Solves complex maintenance problems by interpreting layout drawings, specifications, schematics, diagrams, and operating characteristics of vehicles and components. Troubleshoots, adjusts, repairs, and tests vehicles; alternate fuel, diesel, and gasoline engines; fuel, exhaust, and electrical systems; clutches; torque converters; transmissions; transfer cases; power takeoffs; drive lines; axles; frames; steering, suspension, dispensing, brake, air, and hydraulic systems; tracks; winches; emission control, heating, and air-conditioning systems, and other mounted or special equipment. Repairs, replaces and aligns damaged body sections, upholstery, and accessories. Prepares and finishes painted surfaces. Cuts, grinds, repairs, and installs vehicle glass and plexi-glass. Welds vehicle parts and accessories, and operates industrial sewing machines.
2.4. Practices and ensures compliance with all established safety policies and standards. Implements hazardous waste management policies and procedures ensuring collection, control, and disposition of hazardous and toxic waste material accumulations.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: principles of vehicle maintenance; Air Force Occupational Safety and Health Standards; training programs and procedures; simple mathematical computations; alternate fuel, diesel, and gasoline engines; fuel; suspension; steering; air and hydraulic brake systems; automatic and standard transmissions; driving axles and power trains; electrical wiring systems; pump and dispensing systems; equipment used with special purpose vehicles; use of oxyacetylene and electrical welding equipment; metal working methods; mixing and applying primers; paints; fillers and solvents; handling and storing paint and epoxy; using stencils; spray guns; respirators; buffing and sanding equipment and industrial sewing machines; body work; battle damage repair; supply discipline; and procedures for obtaining parts, supplies, and equipment.
3.2. Education. Not used.
3.3. Training: For award of AFSC 2T370, completion of the vehicle maintenance craftsman course is mandatory.
3.4. Experience. Qualification in and possession of AFSC 2T351/52A/52B/54 or 2T355 is mandatory. Also, experience supervising functions such as inspecting, repairing, modifying, or troubleshooting vehicular and equipment systems, automotive body repair and refinishing, fabrication, mixing and applying paints, upholstery, operating industrial sewing machines, or welding.
3.5. Other. Not used.

AFSC 2T351, Journeyman **Apprentice AFSC 2T331**
Helper AFSC 2T311

SPECIAL PURPOSE VEHICLE AND EQUIPMENT MAINTENANCE

1. Specialty Summary. Performs vehicle maintenance activities on military and commercial design special purpose or base maintenance vehicles and equipment. Activities include inspection, diagnostics, repair, and rebuild of components and assemblies. Related DoD Occupational Subgroup: 612.

2. Duties and Responsibilities:
2.1. Determines the overall mechanical condition of vehicles and equipment, correction of deficiencies required, and effects repair. Systematically analyzes malfunctions by visual and auditory examination or through the use of test equipment. Repairs, adjusts, overhauls, or replaces major assemblies or sub assemblies such as power and drive trains, electrical, air conditioning, fuel, emission, brake, steering assemblies, tracks, hydraulic system components and special purpose vehicle and equipment attachments. Removes, disassembles, and repairs gasoline or diesel engines and components. Repairs components by replacing worn or damaged parts with new or reconditioned parts, grinding, fitting, balancing, or arranging for welding or machining. Reassembles, adjusts and tests repaired units for proper operation.
2.2. Aligns bearing loads, gear tooth contact, and backlash to manufactures specifications. Adjusts valve mechanisms, governors, oil systems, control linkages, clutches, traction units and other systems unique to this type of equipment. Times injection pumps and accessory shaft gear trains.
2.3. Performs preventive and special maintenance. Uses technical publications in maintaining vehicles to prescribed manufactures maintenance schedules. Ensures special inspections and maintenance on vehicles are performed correctly such as; corrosion control, winterization, storage and shipment. Properly annotates all maintenance performed on prescribed forms for data collection.
2.4. Adheres to all established safety policies and standards to include identification, use, and proper procedures for handling or disposal of hazardous wastes.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electrical, mechanical, and hydraulic principles applying to the repair of special purpose vehicles and equipment; methods of hoisting and handling heavy mechanisms; using lubricants, tools, and publications; supply procedures; and internal combustion engines.
3.2. Education. For entry into this specialty, completion of high school with courses in automotive mechanic or industrial arts is desirable.
3.3. Training. For award of AFSC 2T331, completion of a basic special purpose vehicle and equipment mechanic course is desirable.
3.4. Experience. For award of AFSC 2T351, Qualification in and possession of AFSC 2T331 is mandatory. Also, experience is mandatory in functions such as inspecting, repairing, or maintaining special purpose vehicles.
3.5. Other. For entry into this specialty, normal color vision according to AFI 48-123, *Medical Examination and Standards*, is mandatory.

AFSC 2T352*, Journeyman **Apprentice AFSC 2T332***
Helper AFSC 2T312*

SPECIAL VEHICLE MAINTENANCE

1. Specialty Summary. Performs vehicle maintenance activities on military and commercial design refueling and firefighting vehicles and equipment. Activities include inspection, diagnostics, repair, and rebuild of components and assemblies. Related DoD Occupational Subgroup: 610.

2. Duties and Responsibilities:
2.1. Determines the overall mechanical condition of vehicles and equipment, corrections of deficiencies required, and effects repair. Systematically analyzes malfunctions by visual and auditory examination or through the use of test equipment. Repairs, adjusts, overhauls or replaces major assemblies or subassemblies such as power and drive trains, electrical, air-conditioning, fuel, emission, brake, steering, pumping, suction and agitator, and traction systems. Removes and disassembles gasoline or diesel engines and components. Repairs components by replacing worn or damaged parts with new or reconditioned parts. Reassembles, adjusts, and tests repaired units for proper operation.
2.2. Calibrates and adjusts pumps, meters, safety unit proportioning devices, and limiting devices to ensure proper operation. Synchronizes remote or manual electrical and hydraulic controls. Adjusts power boosters, clutches, drive chains, and tension devices. Performs hydrostatic hose testing of refueling vehicle and equipment.
2.3. Performs preventive and special maintenance, uses technical publications in maintaining vehicles to prescribed manufactures maintenance schedules. Ensures special inspections and maintenance on vehicles are performed correctly such as, corrosion control, winterization, storage and shipment. Properly annotates all maintenance performed on prescribed forms for data collection purposes.
2.4. Adheres to all established safety policies and standards to include identification, use, and proper procedures for handling or disposal of hazardous waste.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: mechanical theory applying to special purpose vehicles; using lubricants, methods of hoisting and handling heavy mechanisms; using tools; internal combustion engines; electricity and hydraulics.
3.2. Education. For entry into this specialty, completion of high school with courses in shop mechanics or industrial arts is desirable.
3.3. Training: The following training is mandatory for award of the AFSC indicated:
3.3.1. 2T332A. Completion of the apprentice special vehicle mechanic (crash or fire vehicles) course.
3.3.2. 2T332B. Completion of the apprentice special vehicle mechanic (refueling vehicles) course.
3.4. Experience. For award of AFSC 2T352, qualification in and possession of AFSC 2T332 is mandatory. Also, experience is mandatory in the functions of inspecting, maintaining, or repairing special purpose vehicles.
3.5. Other. For entry into this specialty, normal color vision according to AFI 48-123, *Medical Examination and Standards*, is mandatory.

4. * Specialty Shredouts

Suffix	*Portion of AFS to Which Related*
A	Fire Trucks
B	Refueling Vehicles

AFSC 2T354, Journeyman **Apprentice AFSC 2T334**
Helper AFSC 2T314

GENERAL PURPOSE VEHICLE MAINTENANCE
(Changed 31 Oct 97)

1. Specialty Summary. Performs vehicle maintenance activities on military and commercial design general purpose vehicles and equipment. Activities include inspection, diagnostics, repair, and rebuild of components and assemblies. Related DoD Occupational Subgroup: 610.

2. Duties and Responsibilities:
2.1. Determines serviceability of vehicle systems, assemblies or subassemblies, and the need for repair. Analyzes malfunctions by visual and auditory examination or through the use of test equipment. Repairs, adjusts, overhauls, or replaces major assemblies or subassemblies such as engine mechanical, electrical, air-conditioning, fuel, emission, power train, brake, steering and suspension systems. Removes and disassembles gasoline or diesel engines and components. Repairs components by replacing worn or damaged parts with new or reconditioned parts. Reassembles, adjusts and tests repaired units for proper operation.
2.2. Performs preventive and special maintenance. Uses technical publications to maintain vehicles to prescribed manufactures' maintenance schedules. Performs special inspections and maintenance on vehicles requiring corrosion control, storage, shipment, and winterization. Properly annotates all maintenance performed on prescribed forms for data collection purposes.
2.3. Adheres to all established safety policies and standards to include identification, use, and proper procedures for handling or disposal of hazardous waste.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of principles and theory applying to general purpose vehicles, technical orders, and maintenance procedures.
3.2. Education. For entry into this specialty, completion of high school with courses in auto mechanics or industrial arts is desirable.
3.3. Training. For award of AFSC 2T334, completion of a basic general purpose vehicle maintenance course is mandatory.
3.4. Experience. For award of AFSC 2T354, qualification in and possession of AFSC 2T334 is mandatory. Also, experience is mandatory in functions such as inspecting, repairing, or maintaining general purpose vehicles.
3.5. Other. For entry into this specialty, normal color vision according to AFI 48-123, *Medical Examination and Standards*, is mandatory.

AFSC 2T451, Journeyman **Apprentice AFSC 2T431**
Helper AFSC 2T411

GENERAL PURPOSE VEHICLE MAINTENANCE

1. Specialty Summary. Performs vehicle maintenance activities on military and commercial design general purpose vehicles and equipment. Activities include inspection, diagnostics, repair, and rebuild of components and assemblies. Related DoD Occupational Subgroup: 610.

2. Duties and Responsibilities:
2.1. Determines serviceability of vehicle systems, assemblies or subassemblies, and the need for repair. Analyzes malfunctions by visual and auditory examination or through the use of test equipment. Repairs, adjusts, overhauls, or replaces major assemblies or subassemblies such as engine mechanical, electrical, air-conditioning, fuel, emission, power train, brake, steering and suspension systems. Removes and disassembles gasoline or diesel engines and components. Repairs components by replacing worn or damaged parts with new or reconditioned parts. Reassembles, adjusts and tests repaired units for proper operation.
2.2. Performs preventive and special maintenance. Uses technical publications to maintain vehicles to prescribed manufactures maintenance schedules. Performs special inspections and maintenance on vehicles requiring corrosion control, storage, shipment, and winterization. Properly annotates all maintenance performed on prescribed forms for data collection purposes.
2.3. Adheres to all established safety policies and standards to include identification, use, and proper procedures for handling or disposal of hazardous waste.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of principles and theory applying to general purpose vehicles, technical orders, and maintenance procedures.
3.2. Education. For entry into this specialty, completion of high school with courses in auto mechanics or industrial arts is desirable.
3.3. Training. For award of AFSC 2T431, completion of a basic general purpose vehicle maintenance course is mandatory.
3.4. Experience. For award of AFSC 2T451, qualification in and possession of AFSC 2T431 is mandatory. Also, experience is mandatory in functions such as inspecting, repairing, or maintaining general purpose vehicles.
3.5. Other. For entry into this specialty, normal color vision according to AFI 48-123, *Medical Examination and Standards*, is mandatory.

AFSC 2T355, Journeyman **Apprentice AFSC 2T335**
Helper AFSC 2T315

VEHICLE BODY MAINTENANCE
(Changed 31 Oct 97)

1. Specialty Summary. Performs vehicle body maintenance activities on military and commercial design vehicles and equipment. Activities include inspection, repair, refinishing of painted surfaces, fabrication of parts, and rebuilding components. Repairs and replaces automotive upholstery, body parts, panels, and fenders. Welds metals and cuts vehicle glass. Related DoD Occupational Subgroup: 704.

2. Duties and Responsibilities:
2.1. Inspects body and frame damage to determine best repair methods. Straightens deformed panels, using hand and power tools. Applies body fillers to build up depressed areas, repairs or replaces locks, latches, remote controls, window regulators and other associated body components. Designs and manufactures mounted equipment, such as seats, pintle hook mounts, and towing connections.
2.2. Removes, installs, and adjusts, body components such as fenders, doors, hoods, grills, bumpers, and quarter panels. Aligns these panels using trammels, measuring tape, plumb bob, jacks and associated equipment.
2.3. Cuts, grinds, bevels, and smoothes the edges of laminated automotive glass and installs. Replaces curved glass with factory replacements.
2.4. Prepares vehicle surfaces for painting by scraping, grinding or applying paint remover. Applies chemical compounds such as primers, sealers and finish coatings to wood and metal vehicle body surfaces. Maintains all painting equipment.
2.5. Cleans, tests, and repairs vehicle radiators and associated parts. Tests for leaks and blockage using tanks and flow testers. Identifies and uses proper procedures for safe handling and disposal of hazardous waste materials.
2.6. Welds, cuts, and repairs metals using oxyacetylene, gas-shielded and arc welding. Prepares metal for welding and sets up job using various jigs, clamps and fixtures. Selects the proper equipment for metal welding and effects repair.
2.7. Adheres to established safety standards and practices.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: metal composition and metal working methods; using oxyacetylene, gas shielded, and electric welding equipment; simple mathematical computations; mixing and applying driers, lacquers, enamels, and solvents; handling and storing paint; and using stencil, brush, spray gun, respirator, shaker-type mixer, buffing and sanding machines, and associated equipment.
3.2. Education. For entry into this specialty, completion of high school with courses in auto mechanics or industrial arts is desirable.
3.3. Training. For award of AFSC 2T335, completion of a basic vehicle body maintenance course is mandatory.
3.4. Experience. For award of AFSC 2T355, qualification in and possession of AFSC 2T335 is mandatory. Also, experience is mandatory in functions such as automotive body repairing or refinishing, mixing and applying paints, and welding.
3.5. Other. For entry into this specialty, normal color vision according to AFI 48-123, *Medical Examination and Standards*, is mandatory.

AFSC 2T377, Craftsman **Apprentice AFSC 2T337**
AFSC 2T357, Journeyman **Helper AFSC 2T317**

VEHICLE MAINTENANCE CONTROL AND ANALYSIS
(Changed 31 Oct 97)

1. Specialty Summary. Supervises and performs the scheduling and analysis of maintenance performed on vehicles and equipment. Uses a computer to manage the vehicle data collection system and develops local retrievals to obtain specific data. Files historical data and maintains vehicle records. Related DoD Occupational Subgroup: 558.

2. Duties and Responsibilities:
2.1. Supervises and performs On-Line Vehicle Integrated Management System (OLVIMS) management functions. Inputs data to the OLVIMS computer system and verifies data accuracy. Prepares, reviews and corrects OLVIMS system products. Develops local retrievals to obtain specific data and analyzes this data for specific trends. Coordinates with work center supervisors and using organizations to ensure a timely repair of assigned vehicles. Monitors contract and warranty repairs, status, and funding. Develops and administers long and short range plans and programs for completion of scheduled maintenance and special projects. Programs vehicles for depot maintenance on a five year maintenance plan. Controls and administers the delayed maintenance, accident, and abuse programs. Operates computers, calculators, typewriters. Maintains and files vehicle historical data and records jackets.
2.2. Assembles specific vehicular information by extracting and tabulating maintenance data in a logical presentation sequence using automated and manual methods. Prepares data for presentation in tabular, chart, graphic and summary form. Gives written and narrative summaries to meet management needs.
2.3. Analyzes data for deviations from specific performance indicators and helps to develop corrective actions.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: maintenance control and analysis, diagnostic duties, maintenance responsibilities, maintenance data collection and reporting procedures, and small computer operation in support of OLVIMS.
3.2. Education. For entry into this specialty, completion of high school with courses in algebra or equivalent mathematics, small computer operations, and auto mechanics is desirable.
3.3. Training. For award of AFSC 2T337, completion of a vehicle maintenance control and analysis course is mandatory.
3.4. Experience. The following experience is mandatory for award of AFSC indicated:
3.4.1. 2T357. Qualification in and possession of AFSC 2T337. Also, experience in functions such as maintenance control or analysis, quality control, diagnostics, or maintenance shop work center, and obtaining parts and materials for use in vehicle maintenance.
3.4.2. 2T377. Qualification in and possession of AFSC 2T357. Also, experience performing or supervising functions such as maintenance control or analysis, quality control, diagnostics, or maintenance shop work centers, and in obtaining parts and materials for use in vehicle maintenance.
3.5. Other. For entry into this specialty, prior qualification at the 5-skill level in any 2T3XX including a minimum of 24 months' experience in that specialty, is mandatory.

Attachment 20

MUNITIONS AND WEAPONS CAREER FIELD (2W)

INTRODUCTION
(CHANGED 30 APR 96)

The Munitions and Weapons Career Field includes assembling, maintaining, storing, delivering, inventory managing, and loading nonnuclear munitions and solid propellants; and handling and aircraft loading nuclear munitions and guided aircraft missiles and rockets. It includes installing, maintaining, and repairing aircraft munitions release and monitor systems, bomb racks, shackles, aircraft machine guns, and cannons; and assembling mechanical components of guided aircraft missiles and rockets. It also includes inspecting, assembling, maintaining, inventory managing, and modernizing mechanical, electrical, electronic, and high explosive components of nuclear weapons and warheads, air launched missiles, reentry vehicles, associated test equipment, and radiological survey instruments. Included in this field are functions of testing mechanical, electrical, and electronic components for acceptance; installing, operational checking, and repairing weapons, warheads, air launched missiles, missile turbojet engines, and reentry vehicle components; surveying and plotting radiation hazards; using and maintaining specialized radiac instruments; munitions disposal activities; and technical escort functions associated with chemical munitions.

Excluded from this field are installing, inspecting, handling, storing, delivering, and issuing liquid propellant fuels. The following is a complete listing of AFSCs for the Munitions and Weapons Career Field.

MUNITIONS & WEAPONS (2W)											
Input or Helper Level		Apprentice or Semiskilled Level		Journeyman or Skilled Level		Craftsman or Advanced Level		Superintendent Level		Chief Enlisted Manager Level	
2W011	Munitions Sys	2W031	Munitions Sys	2W051	Munitions Sys	2W071	Munitions Sys	2W091	Munitions Sys	2W000	Munitions Maint
2W111	Aircraft Armament Systems	2W131	Aircraft Armament Systems	2W151	Aircraft Armament Systems	2W171	Aircraft Armament Systems	2W191	Aircraft Armament Systems	2W100	Aircraft Armament
C	A-10	C	A-10								
D	F-4	D	F-4								
E	F-15	E	F-15								
F	F-16	F	F-16								
H	F-111	H	F-111								
K	B-52G/H	K	B-52G/H								
L	B-1B	L	B-1B								
Z	All Other	Z	All Other								
2W211	Nuclear Weapons	2W231	Nuclear Weapons	2W251	Nuclear Weapons	2W271	Nuclear Weapons	2W291	Nuclear Weapons	2W200	Nuclear Weapons

.

CEM Code 2W000
AFSC 2W091, Superintendent
AFSC 2W071, Craftsman

Journeyman AFSC 2W051
Apprentice AFSC 2W031
Helper AFSC 2W011

MUNITIONS SYSTEMS
(Changed 31 Oct 96)

1. Specialty Summary. Performs and manages munitions production and materiel tasks and activities. Identifies munitions and equipment requirements. Operates and maintains automated data processing equipment (ADPE) to perform munitions accounting, computations, and research. Stores, maintains, assembles, issues, and delivers assembled nonnuclear munitions. Routinely demilitarizes nonhazardous munitions. Operates and maintains munitions materiel handling equipment (MMHE). Develops and implements munitions materiel management concepts and procedures. Complies with explosive, missile, and ground safety, security, and environmental directives and practices. Receives, stores, handles, transports, and accounts for nuclear weapons. Related DoD Occupational Subgroup: 645.

2. Duties and Responsibilities:
2.1. Production. Tests, assembles, and processes nonnuclear guided and unguided munitions. Prepares munitions for loading on aircraft. Checks safe and arm mechanisms. Installs warheads, guidance units, fuses, arming wires, explosive bolts, squibs, fairings, wings, fins, control surfaces, and tracking flares. Assembles aircraft rockets and loads in launchers. Processes aircraft gun ammunition. Maintains and reconditions munitions and MMHE. Reconditions, repairs, and replaces defective or missing parts. Maintains shop or bench stock materiel and schedules replenishment. Modifies munitions and MMHE when directed. Inspects munitions for serviceability and applies munitions product assurance procedures. Installs spotting charges in bombs. Processes ammunition. Inspects ammunition, components, and containers for defects. Prepares documentation indicating identification, quantity, serviceability, and issue. Performs routine demilitarization of nonexplosive munitions items. Repackages munitions and applies container markings.
2.2. Material. Receives, stores, handles, and transports nonnuclear munitions. Unloads and unpacks munitions. Checks shipping documents for accuracy. Identifies munitions by filler, color code, marking, or physical characteristics. Delivers munitions to assembly, storage, or maintenance areas. Prepares munitions for shipment. Determines and maintains storage facilities, reports, safety, and security requirements. Performs inspections and maintains inspection and storage records. Issues nonnuclear munitions. Performs operator maintenance on munitions vehicles and equipment. Performs munitions materiel management and materiel accounting functions. Performs and oversees management and procedural application of manual and automated inventory control and accounting functions. Determines inventory control actions. Conducts inventories and corrects discrepancies. Accomplishes requisitioning actions and maintains due-in, due-out, and status files. Maintains source document control and ensures validity and completeness. Recommends system and program changes to data processing methods. Develops and maintains stock level data. Monitors excess munitions programs. Prepares reports. Operates and maintains ADPE for munitions accounting, reporting, and status configuration. Operates and maintains ADPE for munitions accounting, reporting, and status configuration. Coordinates with maintenance activities on reparable munitions component repair. Obtains material for equipment modifications, periodic component exchange, and maintenance. Receives, stores, handles, transports, and accounts for nuclear weapons.
2.3. Plans and Directs Munitions Systems Activities. Establishes and evaluates performance standards, maintenance controls, and work procedures. Computes data to support financial planning and programming. Analyzes and validates munitions host-tenant and interservice munitions support agreements and plans. Develops methods and techniques to maintain and recondition munitions and handling equipment. Evaluates munitions account condition, identifies deficiencies, and initiates corrective actions. Ensures compliance with policies, directives, and procedures. Evaluates equipment maintenance and material use. Evaluates procedures for assembling, renovating, and storing munitions; and procedures for demilitarization of nonexplosive munition items. Analyzes productivity and provides status information and expected completion dates. Analyzes mission effectiveness, program requirements, and stock control levels, and validates requirements. Analyzes stockpile requirements to determine type and quantity of munitions facilities needed to safely store, inspect, maintain, and secure munitions assets.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: composition and characteristics of munitions, storage, safety, and security requirements and procedures; fusing and arming systems; precision measuring tools and equipment; handling, use, and demilitarization of nonexplosive munition items; munitions material accounting systems; basic mathematics; policies and procedures for accountability and pecuniary liability; techniques of munitions material management and procurement; Air Force property accounting; munitions policies and procedures; inventory and stock control; and preparing and maintaining munitions records and documents.

3.2. Education. For entry into this specialty, completion of high school or General Education Development equivalency is mandatory.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 2W031. Completion of a basic munitions systems course.
3.3.2. 2W071. Completion of the Combat Ammunition Planning and Production course (PDS code 8RM).
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2W051. Qualification in and possession of AFSC 2W031. Also, experience is mandatory in performing functions such as warehousing, accounting, mechanical assembly, electronics, construction, transportation of munitions, use of handtools, and preparing and maintaining documentation and records for inventory management actions involving manual or automated systems or both.
3.4.2. 2W071. Qualification in and possession of AFSC 2W051. Also, experience is mandatory in supervising or performing functions such as receipting, identifying, inspecting, storing, reconditioning, issuing, delivering, maintaining, testing, and assembling guided and unguided munitions; or preparing and maintaining documentation and records for inventory management actions.
3.4.3. 2W091. Qualification in and possession of AFSC 2W071. Also, experience is mandatory in managing functions such as accountable munitions material operations; munitions storage, maintenance, and assembly functions; munitions inspection; equipment maintenance; line delivery and handling functions; computing levels; automated data processing; or maintaining munitions material management accounts.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into the specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For entry, award, and retention of these AFSCs:
3.5.2.1. No record of emotional instability.
3.5.2.2. Normal depth perception as defined in AFI 48-123.
3.5.2.3. Qualification to operate government vehicles according to AFMAN 24-309, *Vehicle Operations*.
3.5.3. For award and retention of AFSCs 2W031/51/71/91/00, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

CEM Code 2W100
AFSC 2W191, Superintendent
AFSC 2W171, Craftsman
Journeyman AFSC 2W151
Apprentice AFSC 2W131*
Helper AFSC 2W111*

AIRCRAFT ARMAMENT SYSTEMS
(Change 30 Apr 96)

1. Specialty Summary. Loads and unloads nuclear and nonnuclear munitions, explosives, and propellant devices on aircraft. Manages, controls, maintains, and installs aircraft bomb, rocket, and missile release, launch, suspension, and monitor systems; guns and gun mounts; and related munitions handing, loading, and test equipment. Related DoD Occupational Subgroup: 646.

2. Duties and Responsibilities:
2.1. Loads, unloads, and positions munitions on aircraft. Loads, positions, performs safing operations, and unloads munitions. Uses handling, loading, and checkout procedures and equipment. Tests suspension, launch, and release systems for retentive locking, and manual or electrical release. Analyzes malfunctions. Performs functional checks of launch and suspension systems. Prepares munitions and inspects post loading weapons. Operates handling and loading equipment, and mates munitions with aircraft release, launch, and suspension systems. Loads and services aircraft gun systems. Tests electrical and electronic circuitry for continuity, voltage, and proper operation. Tests for unwanted electrical signal or power before connecting electrically actuated explosives and propellants. Installs ground safety devices on munition and gun system components to prevent inadvertent detonation, launching, or firing. Inserts and removes impulse cartridges associated with fuel tanks and pylons. Adjusts and installs fuses, boosters, and delay elements in conventional munitions.
2.2. Inspects, repairs, and maintains aircraft release, launch, suspension, and monitor systems; aircraft guns; and related equipment. Operates, inspects, and performs operator maintenance on related munitions handling, loading, and test equipment. Examines for visual defects and proper installation of systems components such as munitions ejector racks, loading and suspension devices, shackles, rocket pods, pylons, aircraft ammunition, boosters, and feed chutes. Boresights and performs after-firing inspection of aircraft guns. Examines aircraft guns for defects. Analyzes malfunctions of munitions launch, release, suspension, and monitor systems, and associated handling and loading equipment. Disassembles, repairs, or replaces mechanical, electrical, electronic, and pneudraulic mechanisms of launch and release systems, and aircraft gun systems. Removes, disassembles, and inspects parts and subassemblies for damage, rust, corrosion, or acceptable clearances and tolerances. Makes adjustments and applies lubricants and preservatives. Performs serviceability tests on aircraft guns, gun systems, and munitions associated suspension equipment.
2.3. Performs armament systems maintenance functions. Modifies munitions launch, release, suspension, and monitor systems to improve efficiency. Determines probable effect of modifications on future maintenance and operational problems.
2.4. Plans, organizes, and directs aircraft armament systems maintenance activities. Establishes and evaluates performance and training standards, maintenance controls, and procedures. Checks methods and techniques used to load and unload munitions on aircraft, to repair and maintain aircraft release and gun systems, and to maintain, repair, and modify associated equipment. Ensures compliance with policies, directives, and safety procedures. Analyzes productivity and work quality. Evaluates operational efficiency of aircraft guns and munitions systems, and recommends modification.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electricity; principles of physics, mechanics, electronics, and ballistics applying to munitions launch, release, suspension, fusing, and arming systems, and aircraft gun systems; use of precision measuring tools and equipment; interpreting schematics and wiring diagrams; concepts and application of maintenance directives; nuclear and nonnuclear munitions loading and safety procedures; and proper handling, use, and disposal of hazardous waste and materials.
3.2. Education. For entry into this specialty, completion of high school or General Education Development equivalency is mandatory. Also, completion of courses in mechanics or basic electronics is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. AFSC 2W131X. Completion of a suffix specific basic aircraft armament systems course.
3.3.2. AFSC 2W171. Completion of the advanced aircraft armament systems course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2W151. Qualification in and possession of AFSC 2W131C/D/E/F/H/K/L or Z. Also, experience loading and unloading munitions, or maintaining, repairing, and modifying munitions launch, release, suspension, or aircraft gun systems.
3.4.2. 2W171. Qualification in and possession of AFSC 2W151. Also, experience performing or supervising functions such as loading and unloading munitions, or maintaining, repairing, and modifying munitions launch, release, suspension, or aircraft gun systems.

3.4.3. 2W191. Qualification in and possession of AFSC 2W171. Also, experience managing and controlling functions such as loading and unloading munitions, or maintaining, repairing, and modifying munitions launch, release, suspension, or aircraft gun systems.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For entry, award, and retention of these AFSCs:
3.5.2.1. No record of emotional instability.
3.5.2.2. Normal depth perception as defined in AFI 48-123.
3.5.3. For award and retention of AFSCs 2W131X/51/71/91/00, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

4. *Specialty Shredouts

Suffix	*Portion of AFS to Which Related*
C	A10
D	F-4
E	F-15
F	F-16
H	F-111
K	B-52
L	B-1
Z	All Other

NOTE: Suffixes are authorized only at the 1- and 3-skill levels.

CEM Code 2W200
AFSC 2W291, Superintendent
AFSC 2W271, Craftsman
Journeyman AFSC 2W251
Apprentice AFSC 2W231
Helper AFSC 2W211

NUCLEAR WEAPONS
(Changed 31 Oct 94)

1. Specialty Summary. Performs and manages maintenance, inspection, storage, handling, modification, accountability and repair of nuclear weapons, weapon components, associated equipment, and general or specialized test and handling equipment. Related DoD Occupational Subgroup: 140.

2. Duties and Responsibilities:
2.1. Inspects, assembles, disassembles, maintains, and modifies nuclear weapons, bombs, missiles, reentry vehicles and systems, launchers, pylons, bomb racks, penetration aids, and associated test and handling equipment. Maintains and operates permissive action link associated equipment. Troubleshoots and maintains test sets. Resolves maintenance problems, interprets publications, performs inspections and submits deficiency reports on faulty components. Writes reviews and recommends improvements to technical data and equipment.
2.2. Stores, handles, and transports nuclear warheads, bombs, missiles, reentry vehicles and systems, penetration aids, and associated equipment. Inspects, maintains, and operates vehicles and munitions material handling equipment used to transport and handle nuclear weapons and components. Uploads and downloads trailers used to transport nuclear weapons.
2.3. Complies with nuclear, missile, explosive, and general safety measures; weapons systems safety rules; and technical orders. Observes two-person concept and no lone zone requirements. Performs emergency disablement or evacuation of nuclear weapons and components. Inspects, maintains, and develops rotation schedules for high security locks and keys. Assists in performing operational checks on alarm systems. Stores, inspects, maintains, and uses small arms and ammunition for weapon storage area support. Performs escort duties. Performs limited conventional munitions functions associated with North Atlantic Treaty Organization custodial detachments.
2.4. Plans, organizes, directs, inspects, and evaluates nuclear weapon activities, and performs nuclear weapon functions. Plans, schedules, inspects, and evaluates nuclear weapon maintenance actions, including related components and specialized test and handling equipment. Performs weapons inventory, accountability, and verification procedures using special weapons inventory management system. Establishes production control, performance standards, and maintenance priorities. Coordinates maintenance actions with other maintenance and munitions organizations. Ensures conformance to prescribed standards of quality, safety, and security. Conducts periodic inspections to provide assistance in solving maintenance and supply problems. Performs production and visual inspections.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electrical and mechanical principles; safety and security requirements for nuclear weapons; interpreting block diagrams and technical orders; and proper handling, use, and disposal of hazardous waste and materials.
3.2. Education. For entry into this specialty, completion of high school or General Educational Development equivalency is mandatory. Courses in mechanics, physics, or basic electricity are desirable.
3.3. Training. For award of AFSC 2W231, completion of a basic nuclear weapons course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2W251. Qualification in and possession of AFSC 2W231. Also, experience performing functions such as inspecting, maintaining, storing, handling, and repairing nuclear weapons, weapon components, and using related test and handling equipment.
3.4.2. 2W271. Qualification in and possession of AFSC 2W251. Also, experience performing or supervising functions such as inspecting, maintaining, handling, and repairing nuclear weapons, weapon components, and related test and handling equipment.
3.4.3. 2W291. Qualification in and possession of AFSC 2W271. Also, experience managing nuclear weapons and associated resources.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For entry, award, and retention of these AFSCs:
3.5.2.1. No record of emotional instability.
3.5.2.2. Normal depth perception as defined in AFI 48-123.
3.5.3. For award and retention of AFSCs 2W231/51/71/91/00, eligibility for a Secret security clearance according to AFI 31-501, Personnel Security Management Program.

Attachment 21

INFORMATION MANAGEMENT CAREER FIELD (3A)

INTRODUCTION

The Information Management Career Field includes operating and managing information management functions identified in AFMAN 37-104, *Managing Information to Support the Air Force Mission*, command, staff, or executive support; and general office management. Specific duties include setting and carrying out policies, procedures, and standards concerning publications, correspondence, and effective writing; abbreviations; administrative orders; publishing libraries; planning and programming to include strategic, wartime, and contingency planning, manpower, productivity, commercial activities, and budget; information analysis; and publications and forms. Information management personnel design office layouts; conduct information management systems analysis; report analysis results; and identify and recommend new or reviewed office procedures and automated systems requirements. They also requisition, store, control, and distribute publications and forms; manage the information reports requirement program; operate publishing distribution offices; establish and implement policies, procedures, and standards related to document security and transmission, Base Information Transfer Center (BITC), and postal operations; manage central destruction facilities; maintain liaison with Defense Courier Service; maintain the Air Force Address Directory and Standard Functional Address System; establish and implement policies for records maintenance and disposal to include microform and electronic records; provide document release and fee schedules; administer and monitor the Privacy Act Program; administer the Freedom of Information Act, and ensure coordination with appropriate release authorities in determining propriety for release; and perform functions involved in operating and maintaining printing and duplicating equipment. Other functions included are commercially procuring printing through Government Printing Office regional printing procurement offices and copier management programs. Works with Chief, Base Information Management and information systems representatives to ensure best mix of equipment and information flow. The following is a complete listing of AFSCs for the Information Management Career Field.

INFORMATION MANAGEMENT (3A)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
3A011 Information Management	3A031 Information Management	3A051 Information Management	3A071 Information Management	3A091 Information Management	3A000 Information Management

CEM Code 3A000
AFSC 3A091, Superintendent
AFSC 3A071, Craftsman

Journeyman AFSC 3A051
Apprentice AFSC 3A031
Helper AFSC 3A011

INFORMATION MANAGEMENT
(Changed 31 Oct 96)

1. Specialty Summary. Performs, supervises, or manages information management (IM) tasks and activities. Implements policy directives and instructions to manage information through its life cycle regardless of media. Related DoD Occupational Subgroup: 510.

2. Duties and Responsibilities:
2.1. Performs IM functions. Performs workgroup administration duties. Helps conduct information analysis to determine proper information flow. Operates office automation equipment. Operates records staging area and records information management system database. Conducts records management surveys. Establishes and maintains office records. Operates publication distribution office and publication distribution office system. Fills requirements, and packages and distributes publications and forms. Defines format and publishes local forms, administrative publications, and correspondence. Performs and assists in planning and programming functions such as wartime and contingency needs, resource management, IM awards program, and preparing support agreements. Maintains publication sets and libraries. Operates the Base Information Transfer Center. Processes, controls, and delivers administrative communications and mail. Prepares and monitors accountable communication control records. Performs quality assurance duties.
2.2. Provides IM support. Helps customer determine life cycle management of their information. Provides guidance and assists customers in determining needs through information analysis. Assists customers in software application for commonly used office automation applications. Performs basic configuration management and initial system diagnostics. Identifies unsolved problems to the Base Network Control Center in assisting customers. Provides guidance to ensure communications, publications, and forms meet prescribed style, format, and legal statutory requirements. Complies with, and assist others with, provisions of the Freedom of Information Act and the Privacy Act. Provides document release service, and accounts for fees collected. Assists customers to determine proper maintenance and disposition of their records.
2.3. Manages IM processes and activities. Responsible for overall administration, management, and life cycle of records, publications, forms, and administrative communications. Manages central destruction facilities.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: policies and procedures relating to the life cycle of information, including administrative communications, office records, publications, and forms; general office management principles; organizational structure and its interrelationship with the mission; security practices; operating computers; and application of software.
3.2. Education. For entry into this specialty, completion of high school with courses in business, English composition, computer science or information systems, mathematics, and keyboarding is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 3A031. Completion of a basic IM course.
3.3.2. 3A071. Completion of the advanced IM course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3A051. Qualification in and possession of AFSC 3A031. Also, experience performing functions such as office management; publications and forms management; or preparing, controlling, and processing written communications.
3.4.2. 3A071. Qualification in and possession of AFSC 3A051. Also, experience performing or supervising functions such as distributing mail and messages; planning and programming; document security; records management; publications and forms; or preparing, monitoring, controlling, and processing written and electronic communications.
3.4.3. 3A091. Qualification in and possession of AFSC 3A071. Also, experience managing and directing information management processes or resource management.
3.5. Other. The following are mandatory for award and retention of the AFSC indicated:
3.5.1. 3A031. Ability to type 25 WPM.
3.5.2. 3A051. Ability to type 35 WPM.

Attachment 22

COMMUNICATIONS-COMPUTER SYSTEMS CAREER FIELD (3C)

INTRODUCTION
(CHANGED 31 OCT 95)

The Communications-Computer Systems (C-CS) Career Field encompasses both Communications-Computer and Communications-Electronics. Included are management, administration, operation, security, and restoral of C-CS in the client, server, and network environment, it's related operating systems software, hardware, and connectivity; related functions of messaging, host computer operations, systems control, and management of C-CS security programs, devices, and materials; functions required for planning and implementing C-CS; operations and supervision of high frequency radio networks and systems; the analysis, development, design, and programming of C-CS software and automated systems; and performance of electromagnetic spectrum management activities. The following is a complete listing of AFSCs for the Communications-Computer Systems.

COMMUNICATIONS-COMPUTER SYSTEMS (3C)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
3C011 Communication - Computer Sys Operations	3C031 Communication - Computer Sys Operations	3C051 Communication - Computer Sys Operations	3C071 Communication - Computer Sys Operations	3C090 Communication - Computer Sys	3C000 Communication - Computer Sys
3C012 Communication - Computer Sys Programming	3C032 Communication - Computer Sys Programming	3C052 Communication - Computer Sys Programming	3C072 Communication - Computer Sys Programming		
3C111 Radio Communication Systems	3C131 Radio Communication Systems	3C151 Radio Communication Systems	3C171 Radio Communication Systems	3C191 Radio Communication Systems	
3C112 Electromagnetic Spectrum Mgt	3C132 Electromagnetic Spectrum Mgt		3C172 Electromagnetic Spectrum Mgt	3C192 Electromagnetic Spectrum Mgt	
3C211 Communication - Computer Sys Control	3C231 Communication - Computer Sys Control	3C251 Communication - Computer Sys Control	3C271 Communication- -Computer Sys Control	3C291 Communication - Computer Sys Control	
3C311 Communication - Computer Sys Plan & Imp	3C331 Communication - Computer Sys Plan & Imp	3C351 Communication - Computer Sys Plan & Imp	3C371 Communication - Computer Sys Plan & Imp	3C391 Communication - Computer Sys Plan & Imp	

CEM Code 3C000 **Superintendent AFSC 3C090**

COMMUNICATIONS - COMPUTER SYSTEMS
(Changed 30 Apr 96)

1. Specialty Summary. Manages communications-computer systems (C-CS) operations and software activities. Activities include system analysis and design, programming, systems operation and maintenance, resource management and security management. Monitors functional C-CS. Helps develop C-CS plans and policy. Related DoD Occupational Subgroup: 532.

2. Duties and Responsibilities:
2.1. Plans and organizes C-CS operations and software activities. Plans and supervises system installation, and evaluates facilities layout. Evaluates performance standards. Designs and develops organizational structures, and determines equipment, training, and supplies required for systems implementation and support. Interacts with customers to promote customer satisfaction. Establishes C-CS procedures.
2.2. Directs C-CS activities responsible for system analysis and design, programming, operations and maintenance, security, systems management, technical support, and resource management. Implements and interprets policies, directives, and procedures.
2.3. Establishes training requirements. Establishes training programs to meet local knowledge requirements and to enhance professional awareness of C-CS technology.
2.4. Inspects and evaluates C-CS activities for compliance with directives. Evaluates, rates, and prepares reports on the C-CS activity effectiveness. Recommends and implements corrective action for improved methods and procedures. Evaluates effectiveness of equipment usage, systems performance, customer service, supplies, and system scheduling, processing, and maintenance.
2.5. Manages C-CS development functions. Helps functional users define requirements. Recommends automated methods to enhance resource use. Supervises functional user requirements translation into automated systems capabilities. Organizes software development teams that use software methodologies. Oversees data base design to optimize collecting and retrieving information. Supervises test and evaluation efforts to determine errors in logic, information flow, and system performance. Organizes and participates in C-CS implementation and conversion. Ensures continued interface between functional users, and programming and operations personnel for implemented systems. Ensures compliance with standards for systems software and documentation.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: techniques and procedures of systems analysis and design; software methodology; communications-computer processing; system operation and maintenance; system and equipment capability, capacity, and logic; and performance measurement, security, and resource management.
3.2. Education. Not used.
3.3. Training. Not used.
3.4. Experience. For award of AFSC 3C090, qualification in and possession of AFSC 3C071 or 3C072 is mandatory. Also, experience is mandatory in directing functions such as systems analysis, design, software development, teleprocessing systems operations and maintenance, C-CS security, or resource management.
3.5. Other. For award and retention of AFSC 3C090, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program,* is mandatory.

AFSC 3C071, Craftsman **Apprentice AFSC 3C031**
AFSC 3C051, Journeyman **Helper AFSC 3C011**

COMMUNICATIONS - COMPUTER SYSTEMS OPERATIONS
(Changed 30 Apr 96)

1. Specialty Summary. Supervises or operates fixed and deployed communications-computer systems (C-CS). Performs or supervises activities such as configuring and monitoring hardware and software for system operation, processing and control of data flow, and client-server multi-user system support including network management or administration. Performs micro-computer fault isolation and restoral actions. Controls, manages, and accounts for automated information systems resources. Manages C-CS security programs and activities including information protection (IP). Related DoD Occupational Subgroup: 531.

2. Duties and Responsibilities:
2.1. Operates C-CS and supervises related activities. Performs system hardware and software operations, management, and administration. Loads programs, files, and databases. Selects input or output media and operation mode. Responds to trouble calls and console messages or signals. Isolates faults, determines causes, and recovers from malfunctions due to hardware, software, and communications failures. Answers status inquiries. Performs operator maintenance of C-CS and peripheral equipment. Assists in program debugging. Coordinates with programmers, systems analysts and administers, and functional users concerning resource capability, operations, reports, and system problems. Tests new operating systems and programs. Coordinates and establishes preventive maintenance schedules for equipment and facilities. Ensures compliance with directives governing physical, operational, computer, and communications security. Coordinates and documents C-CS repairs.
2.2. Provides support and supervision for the client servers, micro, and multi-user C-CS. Performs or assists customers in setup and configuration of computer hardware and software. Runs system diagnostics and determines cause of hardware, software, and network problems. Removes and replaces line replaceable units to restore system operation. Configures and monitors hardware and software. Sets-up and configures local area and wide area nodal hardware. Installs and configures software operating systems, and network operations application software. Monitors and operates network nodes. Provides customer service to assist in operation, restoral, and configuration of functionally operated systems.
2.3. Manages and controls ADP resources. Maintains ADP equipment accounts and inventories. Monitors maintenance contracts and submits reports. Prepares recommendations for equipment acquisition or replacement. Prepares C-CS processing cost reports or estimates. Maintains liaison with using activities to achieve most efficient use of systems and customer satisfaction. Assists system users to determine system hardware, software, and components to meet operational requirements.
2.4. Manages C-CS security and IP programs, Controls, issues, and accounts for communications security material and equipment. Inspects form compliance with control, accountability, use, handling, and technical specification concerning C-CS security elements. Reports security incidents and formulates and applies corrective security procedures. Administers IP tools, performs on-line IP surveys, and produces upchannel IP reports. Provides guidance for communications, computers, and emission security matters. Manages, directs, and educates users on communications, computer, and IP security.
2.5. Evaluates and assists C-CS activities. Makes periodic evaluation and assistance visits, notes discrepancies, and recommends corrective actions. Rates C-CS activities' effectiveness, including manpower, personnel, and training. Conducts communications-computer performance evaluations and management reviews.
2.6. Performs system and product control and scheduling. Establishes processing priorities and schedules system workloads. Schedules machine workloads. Ensures completeness of input and output. Analyzes C-CS production records and reports, operating time, and downtime to determine effectiveness. Evaluates problems with production runs, and determines corrective action. Informs system user of problems affecting processing. Monitors currency, program, and file use, and establishes disk residency requirements and priorities. Ensures processing is timely and accurate, and conforms to procedures. Performs database recovery and upgrade. Applies security techniques to preclude unauthorized access to classified and sensitive information and misuse of automated resources. Maintains magnetic storage media.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: programming; C-CS systems and elements; capabilities, functions, and technical methods for C-CS operation; organization and functions of Air Force automated C-CS and elements; communications-computer flows; operations and logic of electromechanical and electronic C-CS systems and their components; techniques for solving C-CS operations problems; and C-CS security procedures and programs including IP.
3.2. Education. For entry into this specialty, completion of high school with courses in mathematics and computer science is desirable.

3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 3C031. Completion of a basic C-CS operations course.
3.3.2. 3C071. Completion of the advanced C-CS operations course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3C051. Qualification in and possession of AFSC 3C031. Also, experience in C-CS functions such as system operations, control, micro and multi-user technical support, system restoral, resource accounting, or security.
3.4.2. 3C071. Qualification in and possession of AFSC 3C051. Also, experience supervising one of the following functions: analysis of system failure and restoral, C-CS operations, micro and multi-user systems support, system or network management or administration, resource management, or security management.
3.5. Other. For award and retention of AFSCs 3C031/51/71, eligibility for a Top Secret security clearance according to AFI 31-501 is mandatory, *Personnel Security Management Program*.

AFSC 3C072, Craftsman **Apprentice AFSC 3C032**
AFSC 3C052, Journeyman **Helper AFSC 3C012**

COMMUNICATIONS - COMPUTER SYSTEMS PROGRAMMING
(Changed 30 Apr 96)

1. Specialty Summary. Supervises and performs communications-computer systems (C-CS) software analysis, development, design, and programming. Develops computer systems programs and procedures. Interprets specification, coding, formats, testing, maintaining, and modifying programs. Analyzes and designs automated systems. Prepares documentation of proposal specifications and programs. Performs program and documentation maintenance. Related DoD Occupational Subgroup: 532.

2. Duties and Responsibilities:
2.1. Prepares, tests, and documents software. Determines input and output devices. Designs input source data, and prepares output formats and instructions. Prepares system or program test data. Prepares edits of input data. Analyzes output products for programming logic and errors in program logic, syntax, and data entry. Arranges test data and tests routines, and isolates and corrects programming errors. Desk-checks codes, and debugs programs. Prepares, writes, and updates documentation, including user, operations, and program maintenance manuals. Designs, develops, and enforces prescribed directives and security techniques for operating systems, application software, files and data bases to preclude unauthorized access to classified, sensitive information, or misuse of communications-computer resources.
2.2. Schedules and controls computer input and output. Reviews input data for completeness before scheduling programs for computer runs. Establishes and updates program handling for production control system. Ensures output production is timely, accurate, and conforms to the established procedures. Uses internal and remote inquiry techniques to provide functional users desired products.
2.3. Analyzes and updates existing programs. Ensures accuracy and efficiency of existing programs. Develops new and improved processing procedures and techniques, and applies them to existing programs. Applies computer security techniques designed to preclude unauthorized access to computer data and to reduce potential for misuse of computer software or hardware resources. Enforces data base protection and security requirements.
2.4. Designs C-CS. Develops and prepares C-CS studies. Analyzes requests for information. Organizes system study teams and conducts briefings. Analyzes documents and items. Determines how requirements can be met more effectively by automated methods. Determines systematic procedures needed to solve problems arising in communication-computer processing systems. Determines and recommends most reasonable approach in designing new systems or modifying existing system. Prepares system graphics, standard language statements, workload data, and present and proposed costs. Designs and develops functionally unique C-CS and software methodologies such as distributed processing, systems networking, advanced information storage and retrieval, and management techniques. Determines requirements for communications-computer processing equipment and facilities. Participates in economic analyses to determine cost benefits.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: system capabilities, limitations, and logic; techniques and procedures of systems analysis and design; related information processing devices and systems; C-CS and technology; software methodologies; methods of editing input and output data; configuration management techniques; security practices; customer relations; C-CS; application of mathematical and analytical process to C-CS processing problems; and computer program editing and testing techniques.
3.2. Education. For entry into this specialty, completion of high school with courses in algebra, geometry, and computer science and programming is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 3C032. Completion of a basic C-CS software programming course.
3.3.2. 3C072. Completion of the advanced C-CS software programming course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3C052. Qualification in and possession of AFSC 3C032. Also, experience performing functions of programming such as designing, coding, testing, or documenting software.
3.4.2. 3C072. Qualification in and possession of AFSC 3C052. Also, experience performing or supervising one of the functions of programming, such as preparing computer programs, developing systematic procedures for solution of problems associated with programming data for computer application, coding software, or applying broad mathematical principles to C-CS processing problems.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, a minimum score of 71 on the Air Force Electronic Data Processing Test.

3.5.2. For award and retention of AFSCs 3C032/52/72, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

CEM Code 3C000
AFSC 3C191, Superintendent
AFSC 3C171, Craftsman

Journeyman AFSC 3C151
Apprentice AFSC 3C131
Helper AFSC 3C111

RADIO COMMUNICATIONS SYSTEMS
(Changed 30 Apr 98)

1. Specialty Summary. Supervises, operates, and manages radio transmitting, receiving, and ancillary equipment and systems to provide high frequency and satellite communications in fixed and tactical environments. Related DoD Occupational Subgroup: 201.

2. Duties and Responsibilities:
2.1. Operates radio and satellite communications systems and computer terminals. Tunes transmitters, receivers, or transceivers to required signals on prescribed frequencies. Adjusts communications systems equipment, antenna systems, and terminal equipment to provide voice, digital, or analog operations. Performs equipment checks and minor maintenance such as replacing circuitry cards and line replaceable units. Monitors specified frequencies, analyzes radio wave propagation data, and operates and interprets data from frequency selection equipment.
2.2. Processes communications traffic. Copies transmissions from air and ground stations. Processes and relays operational, and administrative messages, including flight, command and control information, and weather data. Encodes and decodes classified messages. Complies with local instructions upon receiving emergency or distress signals; alerts designated direction finding stations.
2.3. Reviews and evaluates radio operations. Identifies and resolves operational problems. Inspects radio operations activities and takes corrective actions to eliminate discrepancies and improve operational efficiency. Monitors station management, training programs, and mission support.
2.4. Performs radio operations functions. Reports status and operating efficiency. Maintains codes, authentication systems, communications directives and publications, and frequency propagation data. Accounts for classified or controlled documents, equipment, and communications security materials.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: functions and operation of fixed and tactical radio and satellite transmitters, receivers, transceivers, remote control units, control consoles, phone patch, and terminal equipment; basic theory and type of fixed, tactical, and satellite antennas; operation of voice and data encryption and decryption equipment; worldwide communications systems; radio operations procedures; emergency and distress procedures; communications and operations security policies, directives, programming, procedures, and equipment; and recognizing and reporting signal interference.
3.2. Education. For entry into this specialty, completion of high school or general educational development equivalency with courses in typing, speech, English, computers, and electronics is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 3C131. Completion of a basic radio communications systems course.
3.3.2. 3C171. Completion of the advanced radio communications systems course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3C151. Qualification in and possession of AFSC 3C131. Also, experience in fixed or tactical radio operations.
3.4.2. 3C171. Qualification in and possession of AFSC 3C151. Also, experience performing or supervising radio operations in a fixed or tactical environment.
3.4.3. 3C191. Qualification in and possession of AFSC 3C171. Also, experience managing or directing radio operations functions.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry, award, and retention of these AFSCs, ability to speak English distinctly.
3.5.2. For award and retention of AFSCs 3C131/51/71/91, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

CEM Code 3C000
AFSC 3C192, Superintendent
AFSC 3C172, Craftsman

Journeyman AFSC 3C132
Helper AFSC 3C112

ELECTROMAGNETIC SPECTRUM MANAGEMENT
(Changed 30 Apr 96)

1. Specialty Summary. Manages, supervises, and performs electromagnetic spectrum management activities. Related DoD Occupational Subgroup: 201.

2. Duties and Responsibilities:
2.1. Performs electromagnetic spectrum management functions. Analyzes requirements, and requests frequencies to support terrestrial, aircraft, and space systems. Coordinates radio, radar, land, and other electromagnetic radiating or receiving requirements. Secures operating authority, and ensures minimum interference is caused or received by Air Force operations. Engineers frequency complement, and determines their compatibility with the requirements of other users, considering transmitter and receiver specification, antenna characteristics, and modes of radio wave propagation. Plans high frequency (HF) radio systems using propagation data. Recommends equipment and antenna types for best HF system performance. Helps analyze radio link deficiencies, and recommends corrective action to improve system performance and intersystem compatibility. Reviews interference reports, and helps resolve interference problem. Maintains frequency records. Reviews plans and programming documents, provides comments on frequency supportability, and determines spectrum management actions. Prepares frequency annexes for plans. Provides spectrum management guidance to developers and potential users of radiating and receiving equipment planned for introduction into the Air Force inventory, and for modification to existing equipment. Examines spectrum allocation data and assignment records to ascertain suitability of specific equipment planned for deployment. Analyzes requirements for engineering projects. Reviews involved, unusual, and difficult spectrum engineering problems. Recommends solutions to frequency compatibility problems.
2.2. Inspects and evaluates electromagnetic spectrum management activities. Conducts inspections of spectrum management units to identify problem areas and provide solutions. Discusses inspection findings with supervisory personnel, and recommends action to correct deficiencies.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: radio propagation factors, including effects of antenna design, power, type of emission, frequency, and effects of terrain; and national, international, and military regulations governing use of spectrum frequencies.
3.2. Education. For entry into this specialty, completion of high school with courses in algebra, plain geometry, and physics is desirable.
3.3. Training. For award of AFSC 3C132, completion of the basic joint spectrum management course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3C172. Qualification in and possession of AFSC 3C132. Also, experience performing or supervising problem solving electromagnetic spectrum engineering, selection, negotiation, and interference.
3.4.2. 3C192. Qualification in and possession of AFSC 3C172. Also, experience managing solution of electromagnetic spectrum engineering, selection, negotiation, and interference problems.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, prior qualification at the 5-skill level in AFSC 1A3X1, 2A1X3, 2EXXX, or 3C1X1.
3.5.2. For award and retention of AFSCs 3C132/72/92, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

CEM Code 3C000
AFSC 3C291, Superintendent
AFSC 3C271, Craftsman
Journeyman AFSC 3C251
Apprentice AFSC 3C231
Helper AFSC 3C211

COMMUNICATIONS - COMPUTER SYSTEMS CONTROL
(Changed 30 Apr 96)

1. Specialty Summary. Monitors and controls performance of networks and communications-computer systems (C-CS). Coordinates their configuration, operation, restoration, and service improvements. Analyzes their capabilities and performance, identifies problems, and takes corrective action. Directs and makes operational adjustments to C-CS equipment. Related DoD Occupational Subgroup: 201.

2. Duties and Responsibilities:
2.1. Monitors and controls performance of networks and C-CS. Operates computers, computer peripherals, and processor controlled diagnostic and control equipment to perform facility and traffic surveillance, network control, traffic control, and technical control. Monitors status and performance of various types of analog and digital radio systems, packet switching systems, message switching systems, centralized computer systems, distributed computer systems, local area networks, and subscriber equipment. Tests subscriber equipment, end-to-end circuits, systems, and networks to verify services provided, and input and output signals meet standards. Protects network and systems security through proper cryptographic interconnections or other protective equipment, and through use of security procedures. Implements electronic combat procedures. Configures circuits, systems, and networks based on subscriber service requirements, network traffic patterns, and loading, and results of quality assurance tests. Performs automated and manual patching and cross connecting to establish or restore service. Localizes equipment failures, performs operational equipment adjustments, and reconfigures equipment or mode of operation by replacing, restrapping, or reprogramming software, circuit boards, modules, subassemblies, and assemblies.
2.2. Coordinates network and C-CS configuration, operation, restoration, and service improvements. Communicates with subscribers, local and distant agencies, and contractors by voice, teletypewriter, facsimile, or data communications terminals to schedule down-time and quality assurance tests, isolate faults or degradation, restore service, and effect repair. Directs or performs frequency changes. Directs on-equipment maintenance to minimize service impacts. Provides specialized advice and technical assistance on current and new operations, systems, and networks.
2.3. Analyzes networks and C-CS capabilities, performance, and identifies problems and takes corrective action. Records information useful in evaluating and controlling network and C-CS operations, service capabilities, and quality. Analyzes circuits, systems, and networks performance, over time, using manual and computerized techniques to identify causes of service and performance degradation or reoccurring failures. Performs operational inspections and evaluations of network and C-CS performance, identifies problems, and takes corrective action or recommends service improvements. Performs configuration control, systems planning, and analysis to ensure systems meet current and future mission requirements. Plans and organizes C-CS control activities. Advises superiors and generates reports to management on network and C-CS operations, performance, services efficiency, and recommended improvements.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: operating principles and signal characteristics of electronic components and devices, electrical modulation and multiplexing techniques, and imagery to electrical signal conversion; operating principles of computers and peripherals; digital circuit signal characteristics; encoding techniques; computer-communication protocols and interface techniques; operating principles of fiber optics, cable and radio transmission equipment, antennas, and transmission-media propagation theory and operating principles of signal switching networks and local area networks.
3.2. Education. For entry into this specialty, completion of high school with courses in physics and mathematics is desirable.
3.3. Training. The following training is mandatory for award and retention of the AFSC indicated:
3.3.1. 3C231. Completion of the basic C-CS control course.
3.3.2. 3C271. Completion of the advanced C-CS control course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3C251. Qualification in and possession of AFSC 3C231. Also, experience in C-CS functions such as operating fixed, mobile, or transportable C-CS circuits, equipment, transmission media, test equipment, and network management.
3.4.2. 3C271. Qualification in and possession of AFSC 3C251. Also, experience performing or supervising functions such as help desk, monitor and control, C-CS control, network management, and operations facilities including operating terminals, computers, or automated test systems.
3.4.3. 3C291. Qualification in and possession of AFSC 3C271. Also, experience managing C-CS control facilities or multiple C-CS functions.

3.5. Other. For award and retention of AFSCs 3C231/51/71/91, eligibility for a Top Secret security clearance according to AFI 31-501, *Personnel Security Management Program,* is mandatory.

CEM Code 3C000
AFSC 3C391, Superintendent
AFSC 3C371, Craftsman

Journeyman AFSC 3C351
Apprentice AFSC 3C331
Helper AFSC 3C311

COMMUNICATIONS - COMPUTER SYSTEMS PLANNING AND IMPLEMENTATION
(Changed 30 Apr 96)

1. Specialty Summary. Manages, supervises, and performs communications-computer systems (C-CS) planning and implementation activities. Focal point for base C-CS planning. Manages implementation of C-CS projects and ensures C-CS architecture, configuration, and integration conformity. Manages C-CS and services contracts. Related DoD Occupational Subgroup: 558.

2. Duties and Responsibilities:
2.1. Develops, plans, and integrates base C-CS. Performs mission review with C-CS customers for architectural integration and impact on C-CS infrastructure. Develops and maintains base C-CS assessment blueprint. Evaluates war, support, and contingency plans to determine impact on C-CS resources. Ensures identification of C-CS shortfalls and inter-operability of C-CS. Ensures tasked C-CS and personnel are deployment and mobility ready. Manages maintenance of unit agreements file and identifies impact of agreements on unit resources. Maintains C-CS planning and implementation source documents consisting of architectures; war, support, and contingency plans; agreements; and contracts. Helps customer develop C-CS requirements. Serves as C-CS advisor at meetings for facility design, military construction programs and minor construction planning. Evaluates base comprehensive plan and projects to determine C-CS impacts and shortfalls. Prepares C-CS assessments. Ensures technical solutions integrate with existing or proposed systems.
2.2. Implements C-CS projects. Maintains documents on implementing of C-CS. Verifies availability of project funding. Determines implementing and support activities. Coordinates and forwards acquisition documents for C-CS. Prepares for C-CS site surveys. Determines adequacy and correctness of C-CS project packages and amendments. Processes tasking documents. Monitors project status, and reports to higher headquarters, support, and implementing agencies. Assists C-CS implementation teams. Monitors project completion actions. Ensures availability of logistic support. Monitors project exceptions. Monitors status of base civil engineer work requests. Manages maintenance of C-CS installation records, files, and indexes.
2.3. Manages C-CS contracts. Administratively manages C-CS contracts. Manages development of statements of work and performance work statements. Informs management of C-CS contract status, and initiates contract renewal actions.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: Air Force C-CS technologies, planning documents, and application of these documents to the C-CS system infrastructure; deployment and mobility requirements; management of program or project logistics support actions; and management of program or project implementation actions.
3.2. Education. For entry into this specialty, completion of high school or general educational development equivalency is mandatory. Completion of high school courses in business mathematics and statistics is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 3C331. Completion of the basic C-CS planning and implementation course.
3.3.2. 3C371. Completion of the advanced C-CS planning and implementation course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3C351. Qualification in and possession of AFSC 3C331. Also, experience performing C-CS planning and implementation functions.
3.4.2. 3C371. Qualification in and possession of AFSC 3C351. Also, experience supervising or developing C-CS planning and implementation activities.
3.4.3. 3C391. Qualification in and possession of AFSC 3C371. Also, experience managing C-CS planning and implementation functions and activities.
3.5. Other. For award and retention of AFSCs 3C331/51/71/91, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program,* is mandatory.

Attachment 23

CIVIL ENGINEERING CAREER FIELD (3E)

INTRODUCTION
(Changed 31 Oct 97)

The Civil Engineering Career Field encompasses:

Mechanical and electrical activities to install, operate, maintain, and repair base direct support systems and equipment; electrical facilities; electrical power generation and distribution; and heating, ventilation, air conditioning and refrigeration systems and equipment, and their controls.

Structural and pavement activities, including construction and maintenance of structural facilities and pavement areas; maintaining pavements, railroads, and soil bases; performing erosion control; operating heavy equipment; structural and metal fabricating, construction, and maintenance; engineering specialists; and operations functions.

Utilities systems functions such as operation, maintenance, repair, and construction of plumbing, water, and wastewater systems and their components; fuel system maintenance; and pest management.

Fire protection, including preventing, controlling, and extinguishing all types of fire occurring on the ground, and performing related rescue, first aid, and property preservation; potential of fires involving facilities, operational processes, wildlands, aerospace vehicles, weapons, and hazardous or other materials; operation and operator maintenance of all types of crash fire rescue and support vehicles; tools and equipment; and services in support of base emergency disaster operations.

Explosive ordnance disposal (EOD) activities, including detecting, identifying, rendering safe, recovering, and destroying United States and foreign explosive, incendiary, and nuclear ordnance; supervising EOD functions and resolving technical problems of EOD and the procedures of neutralizing and disposing of improvised explosive devices; and performing as specialized members of the disaster response force.

Readiness activities, including personnel training to accomplish the primary mission under the handicaps imposed by enemy attack and by acts of man and nature; training in detecting, measuring, and decontaminating nuclear, biological, and chemical contaminants; providing and using proper protective equipment; and day-to-day operations requiring establishing, training, and equipping a disaster response force to handle all types of peacetime accidents and requests for assistance from the civilian community.

The Civil Engineering Career Field is a contingency related career field. Personnel serving in this career field may participate in recovery operation as a result of natural and manmade disasters, or be subject to deployment and employment in hostile environments created by terrorism, sabotage, or chemical, biological, or conventional warfare. Individuals should have knowledge of contingency skills such as first aid procedures, field sanitation and hygiene, work party security, repair and construction methods, beddown procedures, personal weapons, chemical warfare defense, and explosive ordnance reconnaissance.

Excluded from this career field are functions of maintenance and repair of ground support equipment that are included in the Manned Aerospace Maintenance Career Field (2A) and medical care of injured personnel (other than emergency first aid) which is included in the Medical Career Field (4X). The following is a complete listing of AFSCs for the Civil Engineering Career Field.

CIVIL-ENGINEERING (3E)											
Input or Helper Level		**Apprentice or Semiskilled Level**		**Journeyman or Skilled Level**		**Craftsman or Advanced Level**		**Superintendent Level**		**Chief Enlisted Manager Level**	
3E011	Electrical Sys	3E031	Electrical Sys	3E051	Electrical Sys	3E071	Electrical Sys	3E090	Electrical	3E000	Civil Engineer
3E012	Electric Power Production	3E032	Electric Power Production	3E052	Electric Power Production	3E072	Electric Power Production				
3E111	Heating, Vent, A/C, & Refrig	3E131	Heating, Vent, A/C, & Refrig	3E151	Heating, Vent, A/C, & Refrig	3E171	Heating, Vent, A/C, & Refrig	3E191	Heating, Vent, A/C, & Refrig		
3E211	Pavements & Const Equip	3E231	Pavements & Const Equip	3E251	Pavements & Const Equip	3E271	Pavements & Const Equip	3E291	Pavements & Const Equip		
3E311	Structural	3E331	Structural	3E351	Structural	3E371	Structural	3E391	Structural		
3E411	Utilities Sys	3E431	Utilities Sys	3E451	Utilities Sys	3E471	Utilities Sys	3E490	Utilities Sys		
3E412	Liquid Fuel Sys Maint	3E432	Liquid Fuel Sys Maint	3E452	Liquid Fuel Sys Maint	3E472	Liquid Fuel Sys Maint				
3E413	Environ-mental	3E433	Environ-mental	3E453	Environ-mental	3E473	Environmental				
3E511	Engineering	3E531	Engineering	3E551	Engineering	3E571	Engineering	3E591	Engineering		
3E611	Operations	3E631	Operations			3E671	Operations	3E691	Operations		
3E711	Fire Protection	3E731	Fire Protection	3E751	Fire Protection	3E771	Fire Protection	3E791	Fire Protection	3E700	Fire Protection
3E811	Explosive Ordnance Disposal	3E831	Explosive Ordnance Disposal	3E851	Explosive Ordnance Disposal	3E871	Explosive Ordnance Disposal	3E891	Explosive Ordnance Disposal	3E800	Explosive Ordnance Disposal
3E911	Readiness	3E931	Readiness	3E951	Readiness	3E971	Readiness	3E991	Readiness	3E900	Readiness

CEM Code 3E000 **Superintendent AFSC 3E090**

ELECTRICAL
(Changed 30 Apr 97)

1. Specialty Summary. Manages activities devoted to installation, operation, maintenance, and repair above and below 600 volts electrical power distribution systems; electrical power generating and control systems; fire alarms and intrusion detection systems; airfield lighting systems; and aircraft arresting systems. Related DoD Occupational Subgroup: 721.

2. Duties and Responsibilities:
2.1. Plans and organizes electrical activities. Programs and coordinates electrical power outages, maintenance, and repair requirements with users. Performs planning activities and facility surveys. Makes on-site investigations of proposed work to determine resource requirements. Prepares cost estimates for in-service work requests. Applies engineered performance standards in planning and estimating jobs. Coordinates plans with other civil engineering and base activities.
2.2. Directs electrical activities. Directs functions in electrical and power production activities. Directs installation, operation, maintenance, and repair above and below 600 volts electrical power distribution systems, and electrical power generating and control systems activities, including high and low voltage work, overhead and underground distribution systems, power plant operations, fire alarms and intrusion detection systems, airfield lighting systems, and aircraft arresting systems. Identifies and controls requisitioning of systems, parts, fuels, lubricants, bench stocks, and technical publications. Analyzes productivity and work compliance. Monitors electrical generating unit records, and analyzes for organization, intermediate, or depot level maintenance and preparation of maintenance forms, reports, and records. Issues and logs safe clearance procedures for all crafts engaged in maintenance of electrical systems and equipment. Ensures compliance with environmental and safety regulation and practices.
2.3. Inspects and evaluates electrical activities. Inspects electrical activities to ensure compliance with policies and regulations. Assists in solving maintenance and supply personnel problems. Interprets inspection findings and initiates corrective action. Obtains certification of personnel responsible for working on electrical systems and in power plants.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: principles of electricity and electronics; electrical circuitry and distribution; above and below 600 volts electrical distribution systems; internal combustion engines and other prime movers for electrical generating systems; fire and intrusion detection alarms; airfield lighting systems; aircraft arresting systems; wiring diagrams, schematics, and technical publications; and environmental and safety rules and practices.
3.2. Experience. For award of AFSC 3E090, qualification in and possession of AFSC 3E071 or 3E072 is mandatory. Also, experience is mandatory managing functions such as inspecting, operating, maintaining, and repairing interior and exterior electrical systems; electrical power generating equipment and systems; fire and intrusion detection alarms; airfield lighting systems; or aircraft arresting systems.

AFSC 3E071, Craftsman **Apprentice AFSC 3E031**
AFSC 3E051, Journeyman **Helper AFSC 3E011**

ELECTRICAL SYSTEMS
(Changed 30 Apr 97)

1. Specialty Summary. Installs, inspects, maintains, troubleshoots, repairs, and modifies high and low voltage, interior and exterior electrical distribution systems and components; airfield lighting systems; fire alarms and intrusion detection systems, and complies with environmental and safety regulations and practices. Related DoD Occupational Subgroup: 721.

2. Duties and Responsibilities:

2.1. Installs, maintains, and repairs energized and de-energize electrical distribution systems and components. Installs, maintains, and repairs interior, exterior, overhead, underground electrical power distribution systems and components such as capacitor banks, vacuum and air break switches, breakers, transformers, fuses, lighting fixtures, receptacles, and motors. Climbs utility poles and operates special purpose vehicles and equipment, including line maintenance and high reach trucks to inspect, maintain, and repair overhead distribution systems. Inspects powerline poles for pest damage, deterioration, and loose hardware. Inspects, tests, and services overhead line conductors and direct buried cables, and those in underground ducts and conduits. Troubleshoots malfunctions using technical orders, manufacturers' handbooks, local procedures, codes, and directives. Tests air samples in manholes for dangerous concentrations of combustible or toxic gases and oxygen deficiency.

2.2. Maintains, inspects, and repairs special purpose electrical systems. Inspects, maintains, and repairs fixed and portable airfield lighting systems including runway, threshold, approach, taxiway, visual glide slope, obstruction, and distance marker lights. Installs, maintains, and repairs cathodic protection and grounding systems, and voltage and current regulators. Installs, maintains, and repairs fire alarms and intrusion detection alarms, and traffic system controls. Installs, maintains, and repairs electrical appliances.

2.3. Maintains proficiency in first aid, safety, and environmental protection procedures. Maintains proficiency in pole top and manhole rescue, and cardiopulmonary resuscitation and other first aid procedures. Complies with safety and environmental regulations and practices.

2.4. Advises on problems installing and repairing electrical power distribution and special purpose electrical systems. Solves maintenance problems by studying layout drawings, wiring and schematic diagrams, and analyzing construction and operating characteristics. Uses meters, testing devices, indicators, and recorders to locate equipment, distribution, and motor controller malfunctions and faults. Diagnoses malfunctions, and recommends repair procedures necessary to correct defective equipment. Develops and establishes maintenance and operating procedures to ensure maximum efficiency.

2.5. Performs planning activities. Performs facility surveys. Surveys proposed work to determine resource requirements. Prepares cost estimates for in-service work. Applies engineered performance standards to plan and estimate jobs. Coordinates plans and other activities.

3. Specialty Qualifications:

3.1. Knowledge. Knowledge is mandatory of: principles of electricity and electronics, including computation and measurement of common properties (resistance, inductance, capacitance, voltage, and current); transformers and regulator operations and connection; grounding and lightning protection systems; working on high and low voltage energized lines; applications of safety requirements related to installation and maintenance of electrical distribution systems; principles of fire and intrusion alarms; cathodic protection systems; airfield lighting systems; reading electrical schematics and one-line diagrams; rescue and resuscitation of electrical shock victims; and environmental regulations.

3.2. Education. For entry into this specialty, completion of high school with courses in science, mathematics, and shop mechanics is desirable.

3.3. Training. For award of AFSC 3E031, completion of a basic electrical systems course is mandatory.

3.4. Experience. The following experience is mandatory for award of the AFSC indicated:

3.4.1. 3E051. Qualification in and possession of AFSC 3E031. Also, experience in functions such as climbing poles; installing, maintaining, and repairing low and high voltage interior and exterior electrical systems and components; and airfield lighting systems and components.

3.4.2. 3E071. Qualification in and possession of AFSC 3E051. Also, experience performing or supervising functions such as climbing poles; installing, maintaining, and repairing low and high voltage interior and exterior electrical systems; or airfield lighting systems.

3.5. Other. The following are mandatory for entry into this specialty:

3.5.1. Normal color vision as defined in AFMAN 48-123, *Medical Examination and Standards.*

3.5.2. Qualification to operate government vehicles according to AFMAN 24-309, *Vehicle Operations.*

3.5.3. Freedom from fear of heights.

AFSC 3E072, Craftsman **Apprentice AFSC 3E032**
AFSC 3E052, Journeyman **Helper AFSC 3E012**

ELECTRICAL POWER PRODUCTION
(Changed 30 Apr 97)

1. Specialty Summary. Installs, operates, and modifies electrical generating power production plants and equipment, and aircraft arresting systems. Related DoD Occupational Subgroup: 662.

2. Duties and Responsibilities:
2.1. Installs and operates electrical power plants, distribution equipment, automatic transfer panels, and aircraft arresting systems. Checks equipment for serviceability. Positions equipment such as gasoline, diesel, and turbine engines; generators; switchgears; air compressors; and other power plant auxiliary equipment. Modifies equipment according to technical publications. Accomplishes operating and repair tasks. Installs, positions, and tensions aircraft arresting systems. Rewinds and repositions arresting systems. Checks installed equipment to ensure compliance with publications, policies, and directives. Inspects, tests, and services component systems such as safety, fuel, lubrication, cooling, air pressure, pumps, regulators, governors, and accessory equipment. Observes and interprets instruments such as ammeters, voltmeters, frequency meters, synchroscopes, automatic temperature and pressure recorders, and engine oil, fuel, and coolant gauges. Adjusts engine generator systems to maintain proper voltage, current frequency, and synchronization. Synchronizes multi-generators. Operates high voltage switches, circuit breakers, rheostats, and other controls on switchboards and distribution panels. Performs electrical power control and distribution functions.
2.2. Maintains and repairs electrical power generating equipment, automatic transfer panels, and aircraft arresting systems. Performs inspections. Interprets inspection findings and determines corrective action. Identifies and records engine and generator malfunctions. Troubleshoots malfunctions and inspects parts for excessive wear and other conditions. Uses precision test equipment. Removes, repairs, and replaces defective power generating equipment components. Performs corrosion control. Inspects and replaces gauges and meters. Maintains aircraft arresting systems, including electrical, hydraulic, rewind, and pneumatic systems, and other electronic components. Bench checks components and subassemblies. Tests and calibrates repaired items. Reviews performance data and maintenance records to determine adequacy of maintenance. Interprets data related to electrical power generating systems and aircraft arresting systems to prevent potential weapon systems failure.
2.3. Advises on problems installing and repairing electrical power production equipment and aircraft arresting systems. Solves maintenance problems. Studies layout drawings, and wiring and schematic diagrams. Analyzes construction and operating characteristics. Develops and establishes maintenance and operating procedures to ensure maximum efficiency.
2.4. Maintains records. Posts entries on operation, inspection, and maintenance records. Records meter readings, wear and alignment measurements, fuel consumption, and other data in performance logs. Furnishes information for reports, and recommends changes to correct defective equipment or improve operating procedures. Complies with environmental policies.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: principles of electronics and electricity, including generation, conversion, transformation, distribution, and utilization; types, capacity, and purpose of high and low voltage circuits, circuit breakers, switches, fuses, regulators, relays, instruments, and meters associated with electric generation and distribution; interpreting instrument and meter readings; wiring diagrams, schematics, drawings, and technical publications; techniques of operating and maintaining internal combustion engines, generators, generating plants, distribution panels, and accessory equipment; repair and maintenance of aircraft arresting systems; use and purpose of test equipment; safety rules and practices; environmental policies; principles of management; and operation and repair of electrical power production systems.
3.2. Education. For entry into this specialty, completion of high school with courses in algebra and physics is desirable.
3.3. Training. For award of AFSC 3E032, completion of a basic electrical power production course is mandatory.

3.4. Experience. The following experience is mandatory for award of the AFSC indicated:

3.4.1. 3E052. Qualification in and possession of AFSC 3E032. Also, experience in functions such as operation and maintenance of engines, generators, and distribution components of electric power production equipment and aircraft arresting systems.

3.4.2. 3E072. Qualification in and possession of AFSC 3E052. Also, experience performing or supervising function such as operation and repair of electrical power production and aircraft arresting systems.

3.5. Other. The following are mandatory for entry into this specialty:

3.5.1. Normal color vision as defined in AFMAN 48-123, *Medical Examination and Standards*.

3.5.2. Qualification to operate government vehicles according to AFMAN 24-309, *Vehicle Operations*.

CEM Code 3E000 **Journeyman AFSC 3E151**
AFSC 3E191, Superintendent **Apprentice AFSC 3E131**
AFSC 3E171, Craftsman **Helper AFSC 3E111**

HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION
(Changed 30 Apr 97)

1. Specialty Summary. Installs, operates, maintains, and repairs heating, ventilation, air conditioning and refrigeration (HVAC/R) systems, combustion equipment, and industrial air compressors. Maintains and repairs nonelectric kitchen equipment. Manages HVAC/R functions and activities. Related DoD Occupational Subgroup: 720.

2. Duties and Responsibilities:
2.1. Installs and operates HVAC/R systems and equipment. Interprets drawings and schematics, and installs HVAC/R components. Installs, repairs, fabricates, and tests piping and tubing systems. Installs, connects, troubleshoots, and maintains HVAC/R controls. Tests HVAC/R equipment for proper operation. Balances air and water in HVAC systems. Monitors systems operation to ensure efficiency and compliance technical orders, manufacturer handbooks, local procedures, codes, and directives. Evaluates water treatment for heating and cooling systems. Ensures compliance with safety and environmental regulations for fuels, refrigerants, and hazardous materials.
2.2. Maintains, and repairs HVAC/R equipment and systems. Performs recurring maintenance and seasonal overhaul on systems and components. Uses drawings and schematics to analyze and isolate system malfunctions. Troubleshoots malfunctions. Repairs or replaces components. Modifies equipment for specific missions or to increase efficiency.
2.3. Maintains tools and equipment. Maintains shop tools and equipment.
2.4. Advises on problems installing and repairing HVAC/R equipment and systems. Solves maintenance problems by studying layout drawings, wiring and schematic drawings, and analyzing construction and operating characteristics. Develops and establishes operation and maintenance procedures to ensure maximum efficiency.
2.5. Performs planning activities. Performs facility surveys. Surveys proposed work to determine resource requirements. Prepares cost estimates for in-service work. Applies engineered performance standards to plan and estimate jobs. Coordinates plans and other activities.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: principles of HVAC/R systems, controls, and components; combustion systems; air and water balancing; non-electric kitchen equipment; industrial air compressors; interpreting drawings and schematics; fundamentals of HVAC/R equipment and troubleshooting techniques; industrial water treatment; environmental regulations for fuels, refrigerants, and hazardous materials; and military and commercial publications and environmental regulations.
3.2. Education. For entry into this specialty, completion of high school with courses in mathematics, general science, physics, shop mechanics, electricity, and computer fundamentals is desirable.
3.3. Training. For award of AFSC 3E131, completion of a basic HVAC/R course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3E151. Qualification in and possession of AFSC 3E131. Also, experience in functions such as operation, maintenance, and repair of HVAC/R equipment and control systems.
3.4.2. 3E171. Qualification in and possession of AFSC 3E151. Also, experience performing or supervising functions such as operation, maintenance, and repair of HVAC/R equipment and control systems.
3.4.3. 3E191. Qualification in and possession of AFSC 3E171. Also, experience managing functions such as inspecting, operating, maintaining, and repairing of HVAC/R systems.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For entry, award, and retention of AFSCs 3E111/31/51/71, qualification to operate government vehicles according to AFMAN 24-309, *Vehicle Operations*.

CEM Code 3E000
AFSC 3E291, Superintendent
AFSC 3E271, Craftsman
Journeyman AFSC 3E251
Apprentice AFSC 3E231
Helper AFSC 3E211

PAVEMENTS AND CONSTRUCTION EQUIPMENT
(Changed 31 Oct 97)

1. Specialty Summary. Manages, constructs, maintains, and repairs pavement and other surface areas, airfield mats and membranes, aircraft revetments, sub-grades, and drainage structures. Operates construction equipment and fixed and mobile plants. Uses explosives to perform construction and demolition tasks. Ensures compliance with environmental regulations. Related DoD Occupational Subgroup: 710.

2. Duties and Responsibilities:
2.1. Plans, constructs, and repairs airfield pavements, roads, streets, curbs, surface mats, membranes, and other improved areas using paving and surfacing procedures. Takes soil, aggregate, asphalt, and concrete samples for laboratory tests. Interprets construction drawings and surveys using information such as subgrade contours and grade alignment. Inspects pavements for surface, base, and sub-base damage or defects. Repairs damaged or defective areas by removing and replacing joint and crack sealing, surface overlays, and seal coats. Determines material and equipment requirements and prepares cost estimates for construction activities. Provides erosion control. Operates concrete and asphalt batch, rock crushing, and fixed or mobile plants.
2.2. Determines type and application of equipment to use in various construction, maintenance, and repair operations. Operates various types of construction equipment under conditions requiring knowledge, skills, and techniques necessary to finish grade, level, slope, compact, and perform other construction equipment operations. Operates snow and ice removal equipment. Applies chemicals and other ice control products.
2.3. Performs operator maintenance inspections to determine condition and operational reliability of equipment. Inspects, lubricates, and performs operator maintenance on construction and snow removal equipment. Adjusts and changes attachments on equipment. Connects and repairs wire rope rigging to cable -operated equipment. Schedules and coordinates equipment repair and servicing with the vehicle maintenance activity and other servicing facilities.
2.4. Prepares facility survey schedules and performs surveys. Investigates proposed work sites to determine resource requirements. Prepares cost estimates for work requests. Applies engineered performance standards to plan and estimate jobs. Coordinates plans with other civil engineering and base activities. Inspects work activities to ensure quality and compliance with policies, regulations, and other publications.
2.5. Places and sets off explosives used in quarries and demolishing, clearing operations, and in other construction projects and base denial operations.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: characteristics, capabilities, operation, and maintenance of construction, well drilling, snow removal, paving, and other surfacing equipment and materials; soil types, characteristics, and limitations, and compaction methods used for each; techniques, methods, and procedures used for soil stabilization, drainage, and erosion control with chemicals, portland cement, lime, bituminous, and other materials; mix design of asphaltic and portland cement concrete; developing and operating quarries and borrow pits; roadbeds; structure erection; capabilities, use, handling, and storage of explosive materials; methods and uses of seeding and sodding vegetative cover; use and application of mulches and fertilizers; safety and environmental concerns; planning for snow and ice removal and control; and pavement maintenance plans.
3.2. Education. For entry into this specialty, completion of high school with courses in general science, shop mechanics, and use of drawings is desirable.
3.3. Training. For award of AFSC 3E231, completion of a basic pavements and equipment operator course is mandatory.

3.4. Experience. The following experience is mandatory for award of the AFSC indicated:

3.4.1. 3E251. Qualification in and possession of AFSC 3E231. Also, experience in functions such as operating tools and equipment to prepare areas for construction and to maintain roads, runways, and grounds;; and mixing and placing concrete and bituminous materials.

3.4.2. 3E271. Qualification in and possession of AFSC 3E251. Also, experience performing or supervising functions such as construction equipment operation; special techniques in using construction equipment to prepare areas for constructing and maintaining roads, grounds, and airfield surfaces; or concrete work, soil stabilization, and rigid and flexible pavement construction and maintenance.

3.4.3. 3E291. Qualification in and possession of AFSC 3E271. Also, experience directing functions such as snow and ice removal, construction equipment operations, use of explosives, or pavements and grounds maintenance.

★3.5. Other. For entry award and retention of these AFSCs, qualification to operate a government vehicle according to AFMAN 24-309, *Vehicle Operations,* is mandatory

CEM Code 3E000
AFSC 3E391, Superintendent
AFSC 3E371, Craftsman
Journeyman AFSC 3E351
Apprentice AFSC 3E331
Helper AFSC 3E311

STRUCTURAL
(Changed 31 Oct 97)

1. Specialty Summary. Manages, constructs, repairs, and modifies structural systems and wooden, masonry, metal, and concrete buildings. Fabricates and repairs components of buildings, utility systems, and real property equipment. Ensures compliance with environmental regulations. Related DOD Occupational Subgroup: 710.

2. Duties and Responsibilities:
2.1. Prepares and interprets working drawings and schematics for maintaining, altering, and repairing buildings and structures. Surveys proposed work sites to determine material and labor requirements. Prepares cost estimates. Reviews structural work progress and coordinates changes in schedules. Constructs and repairs footings, floors, slabs, foundations, walls, roofs, steps, doors, and windows for prefabricated and permanent structures. Constructs and modifies buildings. Prepares, applies, and finishes mortar, concrete, plaster, and stucco. Fabricates, repairs, and installs metal parts and assemblies for utility systems and buildings.
2.2. Erects steel and lays out trusses and structures to specific dimensions. Welds, brazes, and solders ferrous and nonferrous metals using oxyacetylene and arc welding processes. Welds butt, lap, tee, and edge joints in all working positions. Inspects, maintains, repairs, and installs overhead and rollup doors, and mechanical gates. Installs forms and reinforcing material. Applies protective coatings such as primers, stains, and sealants.
2.3. Troubleshoots, repairs, and installs commercially manufactured locking devices such as keyed, combination, cipher, panic hardware, and pad locks.
2.4. Erects scaffolding and works from high reach ladders and mobile platforms.
2.5. Identifies and selects materials. Selects construction materials considering strength, moisture content, grade, mix, application procedures, and curing.
2.6. Manages, inspects, and evaluates work center activities. Ensures compliance with commercial and military publications. Submits and reviews supply and equipment requisitions. Discusses inspection findings and recommends corrective action.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: building maintenance, repair, and construction, including roofing; nomenclature of woodworking materials and methods of material storage; theory of squaring by equivalent measurements; application of shop mathematics; theory of wood treatment; type and specification requirements of masonry and concrete materials; batching formulas; methods of curing concrete, mortar, plaster, stucco, tile, and lime mixtures; types of coating preservatives and applications; compatible products to be combined in composite systems; methods of preparing various surfaces for finishing; locking devices; composition, characteristics, and identification of common commercial grade metals; construction grade metal requirements; types and uses of metal hardware; methods of forming and cutting metals; metal fabrication and repair; welding processes; metal layout; shop drawings; metal measurement and layout devices; cutting equipment; gas and arc welding equipment; safety procedures and practices; and environmental concerns and safety precautions required in using, storing, and disposing of hazardous materials.
3.2. Education. For entry into this specialty, completion of high school with courses in mathematics, mechanical drawing, and use of metal, masonry and wood working tools is desirable.
3.3. Training. For award of AFSC 3E331, completion of a basic structural course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3E351. Qualification in and possession of AFSC 3E331. Also, experience in functions such as constructing and repairing buildings and heavy structures; erecting prefabricated structures; laying masonry units; mixing, applying, and finishing concrete, plaster, stucco, and mortar; erecting steel; use of protective equipment; or fabricating, installing, and repairing metal components using gas or arc welding equipment.
3.4.2. 3E371. Qualification in and possession of AFSC 3E351. Also, experience performing or supervising functions such as laying masonry units; plastering and carpentry; constructing, erecting, maintenance, and repair of buildings and heavy structures; and planning, installing, repairing, welding, or forging metal components.
3.4.3. 3E391. Qualification in and possession of AFSC 3E371. Also, experience directing functions such as erecting structures or building maintenance.
3.5. Other. The following are mandatory for entry into this specialty:
★3.5.1. Normal color vision as defined in AFMAN 48-123, *Medical Examination and Standards*.

★3.5.2. Qualification to operate government vehicles according to AFMAN 24-309, *Vehicle Operations*.
3.5.3. Freedom from fear of heights.

UTILITIES SYSTEMS
(Changed 31 Oct 94)

1. Specialty Summary. Superintends activities devoted to utilities systems; water and waste water, gas distribution; liquid fuel distribution; and pest management. Related DoD Occupational Subgroup: 720.

2. Duties and Responsibilities:
2.1. Plans and organizes utilities activities. Plans and organizes installation, maintenance, and repair of water and waste water treatment, distribution, and collection systems; liquid fuels distribution systems, and pest management activities with users. Performs planning activities and facility surveys. Makes on-site investigations of proposed work to determine resource requirements. Prepares cost estimates for inservice work requirements. Applies engineered performance standards in planning and estimating jobs. Coordinates plans with other civil engineering and base activities.
2.2. Directs Utilities activities. Directs functions in utilities, liquid fuels maintenance, and pest management activities. Directs installation, maintenance and repair activities including water and waste water distribution systems, gas distribution systems, liquid fuel distribution systems and pest management activities. Identifies and controls requisitioning of systems, parts, fuels, lubricants, bench stock, and technical publications. Analyzes productivity and work quality. Ensures compliance with environmental and safety regulation and practices for water, fuels, pesticides and hazardous materials.
2.3. Inspects and evaluates utilities activities. Inspects utilities activities to ensure compliance with policies and regulations. Assists in solving maintenance problems. Interprets inspection findings and initiates corrective action. Obtains certification of required utilities personnel. Obtains special tools and equipment required for safe performance of tasks assigned.
2.4. Performs planning activities. Performs facility surveys. Surveys proposed work to determine resource requirements. Prepares cost estimates for in-service work. Applies engineered performance standards to plan and estimate jobs. Coordinates plans and other activities.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: principles of water and waste water distribution systems, liquid fuels distribution systems, and pest management activities; industrial water treatment; uses of maintenance materials such as pipes, valves, fittings, packing and gaskets; electrical and electronic controls that apply to these systems; wiring schematics and diagrams; military and commercial technical publications; and environmental regulations for fuels, pesticides, and hazardous materials.
3.2. Education. Not used.
3.3. Training. Not used.
3.4. Experience. For award of AFSC 3E490, qualification in and possession of AFSC 3E471/72/73 is mandatory. Also, experience is mandatory directing functions such as operation, maintenance, and repair of water and waste water treatment, distribution, and collection systems; liquid fuels distribution systems; and pest management activities.
3.5. Other. Not used.

AFSC 3E471, Craftsman **Apprentice AFSC 3E431**
AFSC 3E451, Journeyman **Helper AFSC 3E411**

UTILITIES SYSTEMS
(Changed 30 Apr 97)

1. Specialty Summary. Installs, inspects, repairs, and manages water and waste water distribution systems and components, storm and sanitary sewage collection systems, and gas distribution systems. Complies with environmental and safety regulations. Related DoD Occupational Subgroups: 720.

2. Duties and Responsibilities:
2.1. Installs and operates water, waste water, and gas distribution systems and components. Monitors systems operation to ensure efficiency and compliance. Monitors raw water supply to detect chemical and biological contaminates. Ensures compliance with safety and environmental regulations for hazardous materials. Installs and operates field potable water treatment equipment.
2.2. Maintains, inspects, and repairs water, waste water, and gas distribution systems and components. Performs inspection, recurring maintenance, and seasonal overhaul on systems and components. Troubleshoots malfunctions. Uses drawings and schematics to analyze and isolate system malfunctions. Removes, repairs, and replaces defective components. Modifies equipment for specific missions or to increase efficiency. Locates and determines quality and quantity of water sources. Performs industrial water treatment.
2.3. Advises on problems installing and repairing of utilities equipment and systems. Solves complex maintenance problems by studying layout drawings, wiring and schematic drawings, and by analyzing construction and operating characteristics. Develops and establishes operation and maintenance procedures to ensure maximum efficiency. Coordinates locations of field latrines and pits with engineering and medical staff. Analyzes water for chemical and physical characteristics to determine water purification treatment methods.
2.4. Performs planning activities. Performs facility surveys. Surveys proposed work to determine resource requirements. Prepares cost estimates for in-service work. Applies engineered performance standards to plan and estimate jobs. Coordinates plans and other activities.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: nomenclature, types, sizes, and uses of plumbing materials such as pipes, valves, fittings, metals, caulking, packing, and gaskets; shop mathematics; reading and interpreting drawings and specifications; contingency water and waste water operations; maintenance of water, gas and waste distribution and collection systems; corrosion prevention; military and commercial publications; and environmental regulations.
3.2. Education. For entry into this specialty, completion of high school with courses in mathematics, chemistry, biology, earth sciences, drawing and specification use, and shop mechanics is desirable.
3.3. Training. For award of AFSC 3E431, completion of a basic utilities course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3E451. Qualification in and possession of AFSC 3E431. Also, experience in functions such as operation, maintenance, and repair of plumbing, water and waste water systems, and water quality testing and analysis.
3.4.2. 3E471. Qualification in and possession of AFSC 3E451. Also, experience performing or supervision functions such as operation, maintenance, and repair of plumbing, water and waste water systems, and water quality testing and analysis.
3.5. Other. The following are mandatory for entry into this specialty:
3.5.1. Normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. Qualification to operate government vehicles according to AFMAN 24-309, *Vehicle Operations*.

AFSC 3E472, Craftsman **Apprentice AFSC 3E432**
AFSC 3E452, Journeyman **Helper AFSC 3E412**

LIQUID FUEL SYSTEMS MAINTENANCE

1. Specialty Summary. Installs, inspects, maintains, troubleshoots, repairs, and modifies liquid fuel storage, distribution, and dispensing systems. Related DoD Occupational Subgroup: 720.

2. Duties and Responsibilities:
2.1. Installs, repairs and maintains liquid fuel storage, distribution, and dispensing systems. Manages and modifies liquid fuel systems and components. Checks components for operation, adjustment, pressures, and internal and external leaks under pressure. Troubleshoots malfunctions. Uses drawings and schematics to analyze and isolate malfunctions. Inspects condition of grounding wires, clips, and grounding conductors for proper resistance. Inspects for accumulation of explosive vapors in enclosed liquid fuel systems. Modifies equipment for specific missions or to increase efficiency. Performs recurring maintenance and seasonal overhaul on systems and components.
2.2. Advises on problems installing and repairing of liquid fuel storage, distribution, and dispensing equipment and systems. Solves complex maintenance problems by studying layout drawings, wiring and schematic drawings, and by analyzing construction and operating characteristics. Develops and establishes operation and maintenance procedures to ensure maximum efficiency.
2.3. Performs planning activities. Performs facility surveys. Surveys proposed work to determine resource requirements. Prepares cost estimates for in-service work. Applies engineered performance standards to plan and estimate jobs. Coordinates plans and other activities.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: principles of hydraulic, electrical, and mechanical theory and principles that apply to liquid fuel systems; emergency first aid; physiological effects, characteristics, and hazards of liquid fuel products; and use and interpretation of wiring and schematic diagrams, blue prints, and environmental regulations for fuels and hazardous materials.
3.2. Education. For entry into this specialty, completion of high school with courses in physics is desirable.
3.3. Training: For award of AFSC 3E432, completion of a basic liquid fuel systems maintenance course is mandatory.
3.4. Experience: The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3E452. Qualification in and possession of AFSC 3E432. Also, experience in functions such as installation, maintenance, and repair of liquid fuel systems and components.
3.4.2. 3E472. Qualification in and possession of AFSC 3E452. Also, experience in performing or supervising functions such as installation, maintenance, and repair of liquid fuel systems and components.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For entry, award, and retention of these AFSCs, qualification to operate government vehicles according to AFMAN 24-309, *Vehicle Operations*.

AFSC 3E490, Superintendent
AFSC 3E473, Craftsman
AFSC 3E453, Journeyman

Apprentice AFSC 3E433
Helper AFSC 3E413

ENVIRONMENTAL
(Changed 31 Oct 97)

1. Specialty Summary. Manages evaluates, and executes integrated pest management and environmental compliance, hazardous materials and waste, and pollution prevention programs.

2. Duties and Responsibilities:
2.1. Performs integrated pest management functions. Conducts pest management surveys. Determines pest management actions needed to control and prevent infestations of plant and animal pests. Interacts with medical activities to control health hazards. Selects chemicals and operates pesticide dispersal equipment. Provides maximum residual benefits consistent with environmental protection parameters. Ensures compliance with applicable laws and directives.
2.2. Executes and manages Environmental programs. Provides guidance and oversight for programs such as environmental compliance, conservation , and pollution prevention. Initiates, maintains, and monitors environmental permits. Conducts customer orientation and training courses. Provides technical expertise in emergency hazardous material response actions.
2.3. Maintains tools, equipment, and facilities. Ensures correct use and maintenance of personal protective devises and tools. Maintains facilities, equipment, and storage areas.
2.4. Plans and coordinates activities. Evaluates proposed work, determines resource requirements, and prepares cost estimates. Identifies, budgets for, and acquires specialized equipment. Surveys and inspects activities such as facilities, accumulation point compliance, and pollution prevention opportunity assessments. Maintains historical databases, tracking systems, and profile sheets. Prepares and analyzes reports, and recommends corrective actions.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: Biological principles relating to plant and animal classification and control; hazardous materials classification and characteristics, including application and disposal procedures; environmental laws and directives; safety precautions; and first aid techniques.
3.2. Education. For entry into this specialty, completion of high school with courses in biology and mathematics is mandatory, chemistry and earth science courses are desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 3E433. Completion of the basic environmental apprentice course.
3.3.2. 3E473. Completion of advanced environmental course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3E453. Qualification in and possession of AFSC 3E433. Also, experience in functions such as pest surveys, pesticide application, and operation and maintenance of pesticide tools, equipment, and facilities.
3.4.2. 3E473. Qualification in and possession of AFSC 3E453. Also, experience performing or supervising functions such as conservation, environmental compliance, pollution prevention, or integrated pest management.
3.5. Other. The following are mandatory as indicated:
★3.5.1. For entry into the specialty, qualification to operate government vehicles according to AFMAN 24-309, *Vehicle Operations.*
3.5.2. For entry, award, and retention of these AFSCs:
3.5.2.1. No record of entomophobia, claustrophobia, or hypersensitivity to chemicals or arthropod venoms.
3.5.2.2. Freedom from fear of heights.
3.5.3. For retention of AFSCs 3E453 and 3E473, certification and recertification according to DoD's EPA approved certification program.

CEM Code 3E000
AFSC 3E591, Superintendent
AFSC 3E571, Craftsman
Journeyman AFSC 3E551
Apprentice AFSC 3E531
Helper AFSC 3E511

ENGINEERING
(Changed 31 Oct 97)

1. Specialty Summary. Directs and performs field and technical investigations, drafting, surveying, contract management, and engineering design. Prepares plans, specifications, and programming documents. Designs drawings for engineering projects. Inspects contracts. Performs field tests on soils, asphalt, and concrete. Evaluates conditions and reports compliance with environmental regulations. Designs and manages projects. Related DoD Occupational Subgroup: 412.

2. Duties and Responsibilities:
2.1. Conducts site location surveys and preliminary engineering inspections and investigations. Plans and designs site layout, considering factors such as environmental criteria, topography, soils, and survey data of area involved; location of existing structures; and availability of utilities. Prepares computerized and manual engineering plans and drawings. Performs material takeoffs from construction drawings.
2.2. Performs engineering studies and designs. Plans and prepares cost estimates, performance work statements, and specifications for existing and proposed facilities. Designs rigid or flexible pavements, not subject to extreme climate or loading. Makes simple load calculations for beams, columns, floors, and roofs. Acts as liaison between design, review, construction, and using agencies.
2.3. Performs continuous inspection and surveillance of projects being accomplished by contract. Interprets plans and specifications. Analyzes general provisions of contracts. Participates in construction conferences. Documents construction activities. Reviews material submittals for contract specifications compliance. Coordinates construction effort. Conducts prefinal, acceptance, and post acceptance inspections. Helps evaluate warranties and guarantees. Completes processing of work clearance requirements, record drawings, and correspondence related to facilities under construction. Prepares and evaluates contract progress report, noting work progress, slippage, or other problems. Prepares civil engineering related performance work statements, surveillance documents, and checks contractor compliance.
2.4. Performs standardized tests on soils, asphalt, and concrete. Collects, tabulates, reduces test data, and prepares reports for engineering analysis evaluation.
2.5. Performs command post duties, including command and control, technical assistance, and resource control. Performs construction layout and materials testing for force beddown and rapid runway repair.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: mathematics, including algebra, geometry, and trigonometry; engineering tables; calculators; surveying and drafting; engineering and contracting regulations; plans and specifications; and environmental and safety hazards and concerns.
3.2. Education. For entry into this specialty, completion of high school or general educational development equivalency, with courses in algebra, trigonometry, and geometry is mandatory. Completion of high school courses in drafting, physics, and chemistry is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 3E531. Completion of a basic engineering assistant course.
3.3.2. 3E571. Completion of an advanced engineering assistant course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3E551. Qualification in and possession of AFSC 3E531. Also, experience in functions such as drafting, surveying, and material testing.
3.4.2. 3E571. Qualification in and possession of AFSC 3E551. Also, experience performing or supervising functions such as surveying, drafting, and material testing.
3.4.3. 3E591. Qualification in and possession of AFSC 3E571. Also, experience directing functions such as surveying, materials testing, drafting, and contract management.
3.5. Other. The following are mandatory for entry into this specialty:
3.5.1. Normal color vision as defined in AFMAN 48-123.
3.5.2. Qualification to operate government vehicles according to AFMAN 24-309.

CEM Code 3E000
AFSC 3E691, Superintendent

Craftsman AFSC 3E671
Journeyman AFSC 3E631
Helper AFSC 3E611

OPERATIONS
(Changed 31 Oct 97)

1. Specialty Summary. Responsible for activating and managing Civil Engineer (CE) command and control centers during wartime, contingencies, and local emergencies. Processes and controls work requirements in contingency, wartime, and peacetime situations for work performed by CE work forces. Maintains accountability of resources. Related DOD Occupational Subgroup: 710.

2. Duties and Responsibilities:
2.1. Establishes and operates command and control centers, including communication networks, and coordinating and dispatching specialized teams, and provides technical assistance. Tracks status of beddown, sustainment, and recovery operations. Maintains event logs, and provides updates on status of resources and actions taken. Utilizes contingency, mobility, sustainment, and recovery plans to support operations. Maintains accountability of resources, including personnel, material, equipment, and vehicles. Interfaces with host nations on maintenance requirements, purchase agreements, and service contracts. Identifies, requisitions, and accounts for equipment and supplies used by command and control centers to support employed forces. Monitors compliance with and provides updates for recurring work program schedules for critical assets during sustained operations.
2.2. Establishes customer focal point. Implements and monitors customer satisfaction program. Responds to customer inquiries. Prepares and manages work requirements during approval, processing, and completion stages. Recommends method of accomplishment based on existing capabilities. Develops and monitors installation work order priority program. Monitors work order costs to ensure compliance with legal limits. Operates computer terminals and communications equipment to support work force management activities. Manages preparation and maintenance of work force management records and reports. Performs quantitative study of management data to assess CE cost and reimbursement, work performance, progress, trends, standards, and policies. Manages and ensures a continuous work flow. Establishes priorities, manages work plans, and monitors work status. Analyzes records to ensure compliance with the recurring work program and provides technical assistance. Ensures identification of environmental concerns. Develops and administers facility manager program.
2.3. Analyzes work activities to ensure quality and compliance with policies, directives, and other publications. Interprets findings and recommends corrective action. Collaborates with engineer and environmental planning functions to prepare and execute CE programs and plans.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of CE policies, operations practices, and procedures for constructing, maintaining, and operating real estate, facilities, systems, and equipment; supply procedures, directives, and policies; information management systems use; and work force management requirements, interpretation, and application of technical guidance, directives, operational plans, and command policies.
3.2. Education. For entry into this specialty, completion of high school with courses in mathematics, and English composition is mandatory. Accounting, typing, and computer operations are desirable.
3.3. Training. For award of AFSC 3E631, completion of the basic operations course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated.
3.4.1. 3E671. Qualification in and possession of AFSC 3E631.
3.4.2. 3E691. Qualification in and possession of AFSC 3E671.
3.5. Other. The following are mandatory for entry into this AFSC:
3.5.1. Prior qualification at the 5-skill level or higher in any 3EXXX.
3.5.2. Qualification to operate government vehicles according to AFI 24-301, *Vehicle Operations.*
3.5.3. Ability to speak distinctly.

CEM Code 3E700
AFSC 3E791, Superintendent
AFSC 3E771, Craftsman
Journeyman AFSC 3E751
Apprentice AFSC 3E731
Helper AFSC 3E711

FIRE PROTECTION

1. Specialty Summary. Protects people, property, and the environment from fires and disasters. Provides fire prevention, fire fighting, rescue, and hazardous material responses. Related DoD Occupational Subgroup: 495.

2. Duties and Responsibilities:
2.1. Plans, organizes, and directs all fire protection activities. Analyzes fire protection operations, determines trends and problems, and formulates corrective measures. Provides fire protection guidance. Coordinates fire protection support agreements and pre-incident plans. Executes and enforces the Fire Department Occupational Safety and Health Program. Conducts and evaluates training on specialized fire protection equipment and procedures. Performs inspections and organizational maintenance on fire protection vehicles, equipment, and protective clothing. Manages and operates fire alarm communications centers. Supports the electrical power production function with resetting aircraft arresting systems.
2.2. Provides fire prevention guidance. Performs project reviews to ensure fire safety feature adequacy. Inspects facilities, and identifies fire hazards and deficiencies. Determines fire extinguisher distribution requirements and performs inspections and maintenance. Establishes public relations and conducts fire prevention awareness and educational training.
2.3. Controls and extinguishes aircraft, structure, wildland, and miscellaneous fires. Establishes an emergency operations incident command system. Drives and operates fire apparatuses, specialized tools, and equipment. Conducts hose evolutions and pump operations, and protects exposures. Preserves and protects emergency scene evidence. Investigates fires to determine origin and cause.
2.4. Effects entry into aircraft, structures, and other enclosures. Shuts down engines, safeties ejection systems, and isolates utilities. Conducts search and rescue operations. Administers emergency first aid.
2.5. Protects people and the environment from hazardous material releases.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory: fire department mission and organization; safety requirements and objectives; fire alarm and communications; fire behavior; portable fire extinguishers; personal protective clothing and equipment; forcible entry, ventilation, ropes, ladders, fire hose appliances, and streams; foam fire streams; fire control, salvage, overhaul, emergency medical care, and cardiopulmonary resuscitation (CPR); rescue; water supplies and sprinklers; hazardous materials; fire prevention and public fire education; and fire cause determination.
3.2. Education. For entry into this specialty, completion of high school with courses in chemistry, general science, and mathematics is desirable.
3.3. Training. For award of AFSC 3E731, completion of a basic fire protection specialist course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3E751. Qualification in and possession of AFSC 3E731. Also, experience operating fire fighting tools and equipment, extinguishing fires, rescuing personnel, and performing emergency medical care and CPR.
3.4.2. 3E771. Qualification in and possession of AFSC 3E751. Also, experience performing or supervising fire protection functions.
3.4.3. 3E791. Qualification in and possession of AFSC 3E771. Also, experience managing fire protection functions.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For entry, award, and retention of these AFSCs:
3.5.2.1. No record of pyrophobia, acrophobia, or claustrophobia.
3.5.2.2. Ability to speak distinctly.
3.5.2.3. Qualification to operate government vehicles according to AFMAN 24-309, *Vehicle Operations*.
3.5.2.4. For entry, award, and retention of AFSCs 3E711/31/51/71, visual acuity correctable to at least 20/20 in one eye, 20/30 in the other eye, and not more than 20/200 in each eye, uncorrected.
3.5.2.5. For award and retention of AFSCs 3E731/51/71/91/00, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

CEM Code 3E800
AFSC 3E891, Superintendent
AFSC 3E871, Craftsman
Journeyman AFSC 3E851
Apprentice AFSC 3E831
Helper AFSC 3E811

EXPLOSIVE ORDNANCE DISPOSAL
(Changed 30 Apr 97)

1. Specialty Summary. Performs, supervises, and manages explosive ordnance disposal (EOD) operations. Locates, identifies, disarms, neutralizes, recovers, and disposes of hazardous explosives; chemical, biological, incendiary, and nuclear ordnance; and criminal or terrorist devices. Related DoD Occupational Subgroup: 431.

2. Duties and Responsibilities:
2.1. Conducts and supervises render safe operations. Responds to emergencies with equipment and technical data. Conducts long range and close in reconnaissance, identifies and accesses ordnance condition, and advises commanders on recommended safe withdrawal distances. Excavates and safes unexploded ordnance. Exploits unknown items for technical intelligence value. Uses monitoring and detecting equipment when ordnance may contain, or may be contaminated with, toxic or radioactive materials.
2.2. Disposes of unserviceable, excess, or dangerous ordnance. Transports demolition explosives and equipment to authorized disposal areas. Fabricates explosive demolition charges, and disposes of hazardous explosives according to environmental regulations and laws.
2.3. Neutralizes and disposes of improvised explosive devices. Uses x-ray equipment, robotics systems, and remotely initiated or controlled tools and techniques to interrogate and gain access to the device. Wears special protective bomb suit or armor.
2.4. Serves as a member of base emergency response team. Provides ability to detect, monitor, evaluate, and decontaminate explosive, radioactive, chemical, or biological ordnance hazards. Safes, removes, and disposes of ordnance from crashed aircraft or vehicles carrying explosives.
2.5. Restores airfield operations following enemy attack. Clears unexploded ordnance and hazards from airfields, forward operating locations, landing zones, and drop zones.
2.6. Clears explosive contaminated property. Surveys extent of explosive contamination on excess AF property, and on bombing and gunnery, research and development, and munitions test ranges. Prepares clearance plans and cost estimates for clearance operations. Establishes, operates, and maintains EOD explosive proficiency ranges.
2.7. Identifies requirements for and maintains tools, equipment, supplies, and technical data. Orders, inventories, stores, mobilizes, and maintains specialized tools, equipment, supplies, and EOD publications. Uses computers to support flight activities. Develops notional concepts, mission need statements, and operational requirements documents.
2.8. Plans EOD contingency operations. Develops operation plans, concepts of operation, and operating instructions on EOD employment. Develops explosive safety plans.
2.9. Supports special activities and taskings. Supports United States Secret Service, and other Federal agencies by providing protection to the President, Vice President, and other dignitaries. Deploys to support special operations and military operations other than war. Supports research and development testing of weapons, aircraft, and space systems. Supports specialized Joint Service task force operations. Provides EOD services to Federal, state, and local civil authorities. Instructs base and community members on ordnance recognition and protective measures for improvised explosive devices and conventional ordnance. Provides hazardous materials (HAZMAT) response capability for incidents involving explosive ordnance.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: composition and characteristics of United States and foreign conventional, chemical, biological, improvised, and nuclear ordnance; basic electronics; precautions, tools, and protective equipment required for response to release of hazardous substances as operations level first responders and level three technicians; and proper handling, use, rendering safe, and treatment of hazardous explosive wastes.
3.2. Education. For entry into this specialty, completion of high school or general educational development equivalency is mandatory. Courses in physics, mechanics, and basic electronic theory are desirable.
3.3. Training. For award of AFSC 3E831, completion of phases I and II of the explosive ordnance disposal courses are mandatory.

3.4. Experience. The following experience is mandatory for award of the AFSC indicated:

3.4.1. 3E851. Qualification in and possession of AFSC 3E831. Also, experience rendering safe munitions, removing and treating hazardous unexploded ordnance, or decontaminating activities.

3.4.2. 3E871. Qualification in and possession of AFSC 3E851. Also, experience performing or supervising rendering safe munitions, treating hazardous unexploded ordnance, or decontaminating activities.

3.4.3. 3E891. Qualification in and possession of AFSC 3E871. Also, experience managing EOD functions or operations.

3.5. Other. The following are mandatory as indicated:

3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.

3.5.2. For entry, award, and retention of these AFSCs:

3.5.2.1. No record of emotional instability.

3.5.2.2. Normal depth perception as defined in AFI 48-123.

3.5.2.3. For award and retention of AFSCs 3E831/51/71/91/00, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

CEM Code 3E900
AFSC 3E991, Superintendent
AFSC 3E971, Craftsman
Journeyman AFSC 3E951
Apprentice AFSC 3E931
Helper AFSC 3E911

READINESS
(Changed 31 Oct 97)

1. Specialty Summary. Prepares, maintains, and monitors Civil Engineer (CE) operations plans and supporting documents for mobility, response, and recovery operations. Reviews and provides input to installation contingency plans. Monitors prime base engineer emergency force (Prime BEEF), air base operability, and disaster preparedness programs, and conducts and schedules associated training. Manages assigned equipment and supplies, performs or schedules equipment maintenance, and inventories assets. Maintains and inspects nuclear, biological, chemical (NBC), and conventional protective clothing and equipment. Conducts nuclear, biological, chemical, and conventional warning and reporting activities. Related DoD Occupational Subgroup: 494.

2. Duties and Responsibilities:
2.1. Prepares wartime and contingency response plans. Conducts research and assists in developing disaster preparedness plans, including measures to minimize casualties and damage from natural disasters, major accidents, wartime operations, and other military operations other than war. Coordinates actions to ensure prompt response during disaster operations, including immediate mobilization of all resources and participation of all agencies and organizations. Coordinates actions to allow continuation or restoration of vital functions and operations. Prepares disaster preparedness annexes, appendices, supplements, and other supporting documents to support operations plans. Prepares checklists and operating instructions for readiness activities.
2.2. Develops and maintains plans for contingency, mobility, and recovery. Extracts tasking from the time-phased force deployment list. Establishes, coordinates, conducts, and monitors the Prime BEEF operation. Assigns Prime BEEF personnel. Analyzes training and deficiencies for wartime tasks. Identifies, budgets, requisitions, and accounts for equipment and supplies used by readiness and contingency teams. Inputs, maintains, and reviews data for status of resources and training system. Establishes, coordinates, and maintains annual Prime BEEF training plan. Assists in assigning, training, and deploying personnel; and in procuring, maintaining, storing, and deploying equipment.
2.3. Conducts disaster preparedness training. Manages, schedules, and conducts training on readiness activities and survival measures for disasters and contingencies. Provides briefings, and develops installation disaster preparedness training and educational materials.
2.4. Assists in emergency planning and response to comply with Executive Order 12856 and the Emergency Planning and Community Right-to-Know Act of 1986.
2.5. Monitors CE readiness and installation disaster preparedness activities. Inspects equipment. Ensures disaster preparedness teams are established and manned. Acts as exercise evaluation team member for CE readiness and ensures exercises are conducted according to directives. Ensures authorized and required NBC protective equipment and clothing, detection devices, and monitoring instruments are available, calibrated, and in operating condition. Monitors actions to preserve life, minimize damage, and restore operations following natural disasters, accidents, and wartime attacks. Coordinates disaster preparedness activities and plans with all base units and nearby military and civilian organizations. Briefs military and civilian personnel in conjunction with community relations programs. Monitors air base operability activities. Requisitions supplies and equipment for readiness and the disaster preparedness support team (DPST). Maintains custodial files for accounts such as supply and equipment; intrabase radio; test, measurement, and diagnostic equipment.
2.6. Manages unit and staff agency program. Provides unit and staff agency assistance to ensure disaster preparedness planning and training have been accomplished, and disaster preparedness directives are being followed. Conducts disaster preparedness analysis.
2.7. Establishes and monitors requirements and procedures for contamination control. Measures contamination. Assists bioenvironmental engineer to interpret hazards to personnel. Coordinates and monitors exposure control procedures. Plots contamination levels and coordinates with medical personnel to identify contaminated areas and establish safety procedures. Ensures unsafe areas are marked according to directives. Documents findings and reports to proper authority.
2.8. Performs CE readiness and installation disaster preparedness functions. Serves in mobile or unit command post, survival recovery center, or NBC control center. Monitors force survivability and advises readiness officer or NCO of deployment and employment capabilities. Establishes an integrated conventional and NBC detection system. Helps prepare for conventional and NBC defense, including activating NBC teams for shelter, contamination control, monitoring, plotting, and reporting. Coordinates protective shelter requirements. Supervises teams engaged in monitoring and contamination control operations. Reviews findings of personnel operating detection equipment, and compiles data to indicate danger areas. Ensures specialized teams comply with contamination control and safety procedures. Manages activities in the NBC control center. Operates mobile command post and disaster preparedness communications net. Helps analyze reports and plotting

areas of contamination. Advises commander on mission impact and recovery activities following an attack. Determines contamination levels and amount over a given area and, in conjunction with medical personnel, recommends time limits that personnel may remain in the area. Ensures emergency facilities are established for personnel contamination control areas. Advises readiness officer on overall situation during disasters or contingency operations. Maintains directives. Maintains operations event log. Provides inputs to reports.
2.9. Ensures safety procedures are followed. Ensures exposure and contamination control procedures are established, coordinated, and distributed. Ensures safety precautions are taken by assigned personnel.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of the characteristics and effects of conventional and NBC weapons; detection of NBC contamination; passive defense measures; principles of contamination control; and technical information, policies, procedures, techniques, and equipment; and CE readiness and contingency planning, training, operations, equipment supply procedures, directives, and policies.
3.2. Education. For entry into this specialty, completion of high school with courses in algebra, chemistry, typing or computer operations, and speech are desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 3E931. Completion of a basic readiness course.
3.3.2. 3E971. Completion of the advanced readiness course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3E951. Qualification in and possession of AFSC 3E931. Also, experience performing functions such as helping prepare disaster preparedness plans.
3.4.2. 3E971. Qualification in and possession of AFSC 3E951. Also, experience performing or supervising functions such as preparing plans and conducting readiness activities.
3.4.3. 3E991. Qualification in and possession of AFSC 3E971. Also, experience directing functions such as readiness programs, or evaluating, planning, and organizing readiness activities.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty:
3.5.1.1. Normal color vision as defined in AFMAN 48-123, *Medical Examination and Standards*.
3.5.1.2. Prior qualification in any 5-skill level AFSC (3-skill level if no 5-skill level exists).
3.5.2. For entry award and retention of these AFSCs, ability to speak distinctly.
3.5.3. For entry, award, and retention of AFSCs 3E911/31/51, qualification to operate government vehicles according to AFMAN 24-309, *Vehicle Operations*.
3.5.4. For entry, award, and retention of AFSCs 3E911/31/51/71, no record of claustrophobia or claustrophobic tendencies.
3.5.5. For entry, award, and retention of AFSCs 3E931/51/71/91/00, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

Attachment 24

HISTORIAN CAREER FIELD (3H)

INTRODUCTION

The Historian Career Field encompasses activities to document Air Forces historical activities. Historian personnel are involved in researching, writing, editing, and organizing historical data; maintaining historical files and repositories; conducting interviews; historical studies; documenting important deliberations and decisions; and deploying to meet operational contingency and wartime requirements to document significant events and submit historical reports. The following is a complete listing of AFSCs for the Historian Career Field.

HISTORIAN (3H)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
3H011 Historian	3H031 Historian	3H051 Historian	3H071 Historian	3H091 Historian	3H000 Historian

CEM Code, 3H000 **Journeyman AFSC 3H051**
AFSC 3H091, Superintendent **Apprentice AFSC 3H031**
AFSC 3H071, Craftsman **Helper AFSC 3H011**

HISTORIAN
(Changed 30 Apr 95)

1. Specialty Summary. Performs and manages historical activities, programs, and functions. Provides historical research and reference services. Performs research, interviews personnel, and prepares analytical historical publications. Assembles and maintains historical document repositories for reference and research. Related DoD Occupational Subgroup: 570.

2. Duties and Responsibilities:
2.1. Provides historical research and reference services. Receives and assigns priority to historical information queries. Uses reference materials, unit knowledge, and research experience to answer queries. Provides historical information.
2.2. Plans, organizes, and manages history activities. Drafts revisions, supplements, and annexes for directives. Coordinates involvement in contingency and wartime operations, and readiness exercises. Develops and implements procedures for preparing historical publications.
2.3. Manages subordinate unit history programs. Conducts periodic visits to assess compliance with policies and directives. Discusses findings and recommends corrective action. Conducts quality assessments of historical products, and rates content, supporting documents, and compliance with security and administrative directives.
2.4. Performs historical research. Reviews unit files. Systematically collects and organizes historical data from correspondence, messages, staff studies, reports, plans, meeting minutes, and other source documents. Attends meetings and briefings to document important deliberations and decisions. Interviews key unit personnel for unique knowledge and insights.
2.5. Prepares historical publications, including periodic histories, studies, papers, and monographs. Determines topics of special interest or importance. Evaluates data for accuracy, objectivity, and pertinence. Writes well organized, fully documented, analytical narratives. Prepares charts, tables, graphs, and statistical summaries of significant information. Uses selected photographs to support narrative. Selects, reproduces, and assembles supporting documents. Places proper security markings, downgrading instructions, and administrative caveats on products.
2.6. Deploys to support operational historical requirements. Assembles and maintains deployment equipment and kit. Participates in unit readiness exercises. Deploys to meet operational requirements, conduct research, secure significant documentation, and prepare historical reports.
2.7. Maintains historical document repository. Collects, organizes, and indexes historical reference and research publications and documents.
2.8. Manages historian functions and activities. Advises on historical and museum program matters. Identifies, plans, and maintains facility, equipment, security, and supply requirements. Maintains publications, and administrative and historical files.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: Air Force history, organization, functions, and terminology; English composition and grammar; interviewing techniques; contingency and wartime operational planning; historiography methods and procedures; USAF history and museum program directives; computer systems and word processing, spreadsheet, and database applications; and historical repositories and reference services.
3.2. Education. For entry into this specialty, completion of high school or general educational development equivalency is mandatory. Completion of college-level courses in history, English, speech, technical writing, and political science is desirable.
3.3. Training. For award of AFSC 3H031, completion of a unit historian development course is mandatory.
3.4. Experience. The following experience is mandatory for award of AFSC indicated:
3.4.1. 3H051. Qualification in and possession of AFSC 3H031. Also, experience performing historical research and writing.
3.4.2. 3H071. Qualification in and possession of AFSC 3H051. Also, experience performing or supervising functions such as research and preparation of historical documents, or writing historical monographs and special studies.
3.4.3. 3H091. Qualification in and possession of AFSC 3H071. Also, experience developing, directing, and managing historical programs.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty:
3.5.1.1. Prior qualification in any AFSC at the 5-skill level or higher (3-skill level if no 5-skill level exists).
3.5.1.2. Overall rating of 4 or 5 on last five enlisted performance reports.
3.5.1.3. Outstanding military bearing and conduct.

3.5.1.4. No record of an Article 15 or conviction by court-martial.
3.5.1.5. No record of conviction by a civilian court, except for minor traffic violations or similar infractions.
3.5.1.6. Ability to type 20 WPM.
3.5.2. For award and retention of AFSCs 3H031/51/71/91/00, eligibility for a Top Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

Attachment 25

SERVICES CAREER FIELD (3M)

INTRODUCTION
(CHANGED 31 OCT 94)

The Airman Services Career Field includes managing, supervising, and administering or operating appropriated and nonappropriated fund food facilities; transient and temporary lodging facilities; fitness and recreation programs and facilities; mortuary affairs administration; operational support; training and supervising search and recovery teams; training, scheduling, and overseeing installation honor guard team; training and advising unit fitness managers in fitness evaluation procedures and conducting fitness improvement training programs; selecting, procuring, and controlling equipment and supplies; providing lodging, feeding, and recreation services in fixed and bare base facilities; providing liaison support to the Defense Commissary Agency and the Army and Air Force Exchange Service; performing quality assurance functions when areas of responsibility are performed by contract; operating and administering information management systems used to support functional responsibilities; and providing direction for other essential community services by planning and conducting surveys to determine interests and attitudes of the military population and their dependents.

Also included are commissary resale; operation of troop support and subsistence activities; and automated systems operation to support authorized personnel. Personnel must have knowledge of and proficiency in the use of specialized equipment and procedures required to provide subsistence and exchange support to deployed forces. Support may be provided in either fixed or tactical facilities.

The Airman Services Career Field is a contingency-related field. Personnel serving in this career field may participate in recovery operations as a result of natural and manmade disasters. Also, they may be subject to deployment and employment in hostile environments created by terrorism, sabotage, or chemical, biological, or conventional warfare. Personnel should have knowledge of and proficiency using specialized equipment and procedures required to provide food, shelter, laundry, first aid, field sanitation and hygiene, mortuary service, recreation, and physical fitness to deployed forces. The following is a complete listing of AFSCs for the Services Career Field.

SERVICES (3M)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
3M011 Services	3M031 Services	3M051 Services	3M071 Services	3M091 Services	3M000 Services

CEM Code 3M000
AFSC 3M091, Superintendent
AFSC 3M071, Craftsman
Journeyman AFSC 3M051
Apprentice AFSC 3M031
Helper AFSC 3M011

SERVICES
(Changed 31 Oct 94)

1. Specialty Summary. Manages and directs services programs, operations, and retail operations. Supervises and works in appropriated fund (APF) food service activities; lodging activities; recreation, fitness, and sports programs; linen exchange operations; mortuary affairs programs; honor guard teams; and services readiness programs. Operates and supervises automated information management systems. Related DoD Occupational Subgroups: 800.

2. Duties and Responsibilities:
2.1. Manages services operations. Improves work methods and procedures to ensure economic operation and customer satisfaction. Resolves complaints. Applies accounting principles to control resources. Determines appropriated and nonappropriated fund (NAF) budget requirements. Requisitions and accounts for subsistence, supplies, and equipment needed to support services programs. Identifies facility requirements and conducts surveys to determine facility renovation, construction, and modernization needs. Develops capital expenditures programs for NAF and APF for services facilities. Establishes equipment layout, and operating and maintenance procedures. Manages NAF and APF accounts. Maintains close liaison with commanders and unit fitness managers on the Air Force fitness program. Operates and supervises automated accounting, requisitioning, and reporting systems. Establishes and supervises bare base facilities that provide food, shelter, recreation, laundry, mortuary services, and field exchange operations to deployed personnel.
2.2. Inspects and evaluates services activities. Determines effectiveness of service and retail operation programs by analyzing accomplishments with planned program standards and goals. Ensures storage facilities and procedures adequately safeguard subsistence, equipment, and supplies. Performs quality assurance evaluation duties for contract services. Analyzes inspection findings and takes corrective action.
2.3. Performs services functions. Operates fixed, bare base, and portable food facilities and equipment. Plans, prepares, and adjusts menus. Determines resource availability, pricing, and merchandise trends. Establishes resale merchandise prices, inventory levels, and safeguarding procedures. Maintains liaison with civilian industry to keep abreast of current trends, product development, and improved customer service techniques. Ascertains occupancy status, and determines and certifies nonavailability of transient quarters. Trains unit fitness monitors to conduct unit fitness evaluations. Explains concepts of fitness requirements. Explains and demonstrates proper conditioning procedures, weight training, and aerobic equipment techniques. Promotes physical fitness participation. Works technical mortuary functions such as supervising teams for the search and recovery of human remains. Arranges for transporting and disposition of remains. Ensures mortuary entitlements, escorts, and military honors are arranged. Establishes and maintains mortuary case files.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: accounting procedures; management principles; merchandising; marketing; automated information systems; use of business machines; food service facility operations; subsistence management; requisition and issue procedures; menu planning; lodging operations; recreation program development; personnel management; APF and NAF budgetary sources; facility and equipment maintenance procedures; basic business administration concepts; NAF procedures; retail operations; responsibilities for mortuary affairs, and search and recovery procedures; responsibilities for lost, damaged, stolen, or destroyed property; and operation of services readiness units.
3.2. Education. For entry into this specialty, completion of high school with courses in business arithmetic, accounting, computers, home economics, physical education, and typing is desirable.
3.3. Training. For award of AFSC 3M031, completion of the basic services course is mandatory.
3.4. Experience. The following experience is mandatory for award of AFSC indicated:
3.4.1. 3M051. Qualification in and possession of AFSC 3M031. Also, experience in functions such as preparing, cooking, baking, presenting, and serving food; instructing, coaching, officiating, or directing athletic activities; planning, organizing, and conducting recreation programs; securing supplies, facilities, and performers; proper use and maintenance of recreation supplies and equipment; retail operations; or subsistence functions.
3.4.2. 3M071. Qualification in and possession of AFSC 3M051. Also, experience performing or supervising food service functions or preparing food; lodging operations; fitness and recreation operations and programs; or tasks in commissary and troop support functions.
3.4.3. 3M091. Qualification in and possession of AFSC 3M071. Also, experience managing and operating services programs; installation food or lodging operations; or commissary and troop support activities.
3.5. Other. The following are mandatory for entry, award, and retention of these AFSCs:

3.5.1. Never been convicted by courts-martial.
3.5.2. Ability to speak distinctly.
3.5.3. Never been convicted and sentenced to confinement by a civilian court.

Attachment 26

PUBLIC AFFAIRS CAREER FIELD (3N)

INTRODUCTION

The Public Affairs Career Field encompasses the total spectrum of the Air Forces human communication activities and functions involved in administering and operating Air Force bands, including the USAF Academy and USAF Bands. The functions are designed to facilitate communication flow between the Air Force and the general public, as well as active duty Air Force members, Reserve components, civilian employees, and dependents. Public Affairs personnel are involved in writing, editing and publishing; arranging and conducting special events; military community relations; orientation programs; news media relations; and research, interviewing, reporting, administrative, and management tasks. All print and electronic communication media are used along with interpersonal communication techniques. The Public Affairs Career Field serves the United States Air Force by providing professional, trained communication practitioners to leaders and managers for planning, executing, and reporting internal and public interest policy, plans, and programs. The following is a complete listing of AFSCs for the Public Affairs Career Field.

PUBLIC AFFAIRS (3N)											
Input or Helper Level		Apprentice or Semiskilled Level		Journeyman or Skilled Level		Craftsman or Advanced Level		Superintendent Level		Chief Enlisted Manager Level	
3N011	Public Affairs	3N031	Public Affairs	3N051	Public Affairs	3N071	Public Affairs	3N090	Public Affairs	3N000	Public Affairs
3N012	Radio/TV Broadcast	3N032	Radio/TV Broadcast	3N052	Radio/TV Broadcast	3N072	Radio/TV Broadcast				
3N111	Regional Band	3N131	Regional Band	3N151	Regional Band	3N171	Regional Band	3N190	Regional Band	3N100	Regional Band
A	Clarinet	A	Clarinet	A	Clarinet	A	Clarinet				
B	Saxophone	B	Saxophone	B	Saxophone	B	Saxophone				
C	Bassoon	C	Bassoon	C	Bassoon	C	Bassoon				
D	Oboe	D	Oboe	D	Oboe	D	Oboe				
E	Flute/Piccolo	E	Flute/Piccolo	E	Flute/Piccolo	E	Flute/Piccolo				
F	French Horn	F	French Horn	F	French Horn	F	French Horn				
G	Cornet/Trmpt	G	Cornet/Trmpt	G	Cornet/Trmpt	G	Cornet/Trmpt				
H	Bartn/Euponi m	H	Bartn/Euponi m	H	Bartn/Euponi m	H	Bartn/Euponim				
J	Trombone	J	Trombone	J	Trombone	J	Trombone				
K	Tuba	K	Tuba	K	Tuba	K	Tuba				
L	Percussion	L	Percussion	L	Percussion	L	Percussion				
M	Piano	M	Piano	M	Piano	M	Piano				
N	Guitar	N	Guitar	N	Guitar	N	Guitar				
P	Music Arrng	P	Music Arrng	P	Music Arrng	P	Music Arrng				
R	Vocalist	R	Vocalist	R	Vocalist	R	Vocalist				
S	Elect/Strg Bass	S	Elect/Strg Bass	S	Elect/Strg Bass	S	Elect/Strg Bass				
T	Mil Band Spt (USAF or USAFA)	T	Mil Band Spt (USAF or USAFA)	T	Mil Band Spt (USAF or USAFA)	T	Mil Band Spt (USAF or USAFA)				
V	Audio & Lighting Eng	V	Audio & Lighting Eng	V	Audio & Lighting Eng	V	Audio & Lighting Eng				
Z	Instmlist, Gen (ANG Bands)	Z	Instrmlist, Gen (ANG Bands)	Z	Instrmlist, Gen (ANG Bands)	Z	Instrmlist, Gen (ANG Bands)				
3N211	Premier Band	3N231	Premier Band			3N271	Premier Band	3N291	Premier Band	3N200	Premier Band

PUBLIC AFFAIRS

1. Specialty Summary. Manages public affairs, television, and radio station activities, including evaluating, writing, editing, and distributing news and information material; and management, training and evaluation. Initiates and monitors community relations programs. Related DoD Occupational Subgroup: 570.

2. Duties and Responsibilities:
2.1. Plans, organizes, and manages public affairs and broadcasting activities. Writes supplements to existing directives. Writes budget or financial requirements. Coordinates public affairs and broadcasting functions with other base agencies. Advises commanders at all levels and their staffs on the internal, media relations, and community relations implications of plans, policies, and programs.
2.2. Inspects and evaluates public affairs and broadcasting activities. Evaluates procedures used in collecting, evaluating or disseminating information materials. Evaluates work schedules and overall effectiveness of public affairs and broadcasting programs, including internal, media relations, and community relations activities.
2.3. Performs technical public affairs and broadcasting functions. Writes feature stories, news articles, staff studies, surveys, and special reports. Prepares or assembles information kits. Reviews hometown news releases. Releases stories and photographs to news media. Coordinates and prepares for news interviews and prepares questions to be used. Prepares requests for photographers or graphic support, and briefs photographers on assigned requirements. Plans or coordinates special events. Accompanies news media representatives in covering on-base activities. Assists television or motion picture personnel in obtaining information. Maintains liaison with civic organizations, and promotes community interest in Air Force activities.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: news editing; newspaper layout; methods of collecting and distributing information materials; operating televisions and radio stations; and regulations and directives concerning releasing information for internal and external use.
3.2. Education. Not used.
3.3. Training. Not used.
3.4. Experience. For award of AFSC 3N090, qualification in and possession of AFSC 3N071 or 3N072 is mandatory. Also, experience is mandatory in directing functions such as collecting and disseminating information material, publishing unit newspapers and periodicals, or managing television or radio stations.
3.5. Other. Absence of any speech impediment and ability to read aloud and speak clearly and distinctly are mandatory for award and retention of this AFSC.

AFSC 3N071, Craftsman **Apprentice AFSC 3N031**
AFSC 3N051, Journeyman **Helper AFSC 3N011**

PUBLIC AFFAIRS

1. Specialty Summary. Plans, organizes, coordinates, and conducts internal, community relations, and media relations communications activities. Engages in print and broadcast journalism, to include writing, editing and publishing base newspapers, periodicals, guides, pamphlets, fact sheets, and radio and television scripts. Uses audiovisual resources to support public affairs activities. Prepares and releases news for internal and civilian media, arranges, conducts tours, and conducts community relations activities. Researches and writes speeches. Related DoD Occupational Subgroup: 570.

2. Duties and Responsibilities:
2.1. Prepares, edits, and distributes public affairs program material. Determines best medium and message content to reach target audiences. Designs coordinated multimedia programs on topics of timely concern to management. Advises commanders at all levels and their staffs on the internal, media relations, and community relations implications of plans, policies, and programs. Applies communication theory and techniques to public affairs activities for more effective resource use. Provides means for two-way communication flow within the total communication environment. Establishes, promotes, and maintains the unit public affairs program to provide the widest coverage of unit-level policies, programs, and missions.
2.2. Prepares and releases news for internal and civilian media. Establishes procedures for collecting, evaluating and distributing news and feature items. Plans layout and makeup, and arranges for printing base newspapers, periodicals, and guides. Writes and edits news, features, editorials, and other types of articles, and rewrites copy. Reviews material for compliance with local and Air Force policy and operational security.
2.3. Maintains liaison with civilian media. Receives queries for news media, obtains information, coordinates answers, and gives response to news media. Establishes personal contact with local and regional news media. Receives visiting news media, makes arrangements for interviews, provides briefings, and escorts media representatives. Assists with news conferences, and sets up and operates media center for contingency operations. Writes and maintains accident and other contingency plans. Responds to accidents and incidents in a public affairs capacity. Supports Army and Air Force Home Town News Center program.
2.4. Conducts community relations activities. Maintains liaison with local and regional civic leaders, local and regional government agencies, veterans and civic organizations, retirees, Reserve components, Air Force recruiters, and Air Force Reserve Officer Training Corps and Civil Air Patrol units. Develops promotional material on military events of interest to surrounding civilian communities. Prepares material for presentation before civic groups, and arranges for and assists military speakers. Plans base tours, orientations and open houses for local community members.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: English composition, grammar, and spelling; research methods; interview techniques; regulations and directives concerning release of information; news writing; news editing; newspaper production; basic communication theory; and military-community relations techniques and practices.
3.2. Education. For entry into this specialty, completion of high school or general educational development equivalency is mandatory.
3.3. Training. For award of AFSC 3N031, completion of the basic public affairs course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3N051. Qualification in and possession of AFSC 3N031. Also, experience in newspaper or radio and television news writing, editing, and production; reporting; and research.
3.4.2. 3N071. Qualification in and possession of AFSC 3N051. Also, experience performing or supervising functions such as writing and editing periodicals, writing news and feature stories for release to civilian media, or military-community relations.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, ability to type 20 WPM.
3.5.2. For entry, award, and retention of these AFSCs, absence of any speech impediment, and ability to read aloud and speak distinctly.

AFSC 3N072, Craftsman **Apprentice AFSC 3N032**
AFSC 3N052, Journeyman **Helper AFSC 3N012**

RADIO AND TELEVISION BROADCASTING

1. Specialty Summary. Organizes and conducts broadcast operations. Programs and directs radio and television broadcasts. Prepares informational materials in broadcast format for use on Armed Forces Radio and Television (AFRT) and commercial media; serves as talent and operates broadcast equipment. Related DoD Occupational Subgroup: 400.

2. Duties and Responsibilities:
2.1. Prepares informational materials for use on AFRT and commercial media. Identifies and selects newsworthy events. Produces radio and television scripts, narrations, spot announcements, and news and sports broadcasts. Selects associated visual material as necessary and available. Coordinates use of graphics, sets special effects, and audio and video material to support programming requirements. Prepares and maintains schedules, daily operation logs, and continuity book. Assists public affairs officer in working with electronic media.
2.2. Programs and directs radio and television broadcasts. Selects and schedules program for broadcast on AFRT stations. Reviews all copy and program materials for host country sensitivities before airing. Coordinates receipt and disposition of AFRT program materials. Maintains station library or recorded programming. Evaluates audience feedback. Monitors AFRT station programs for effectiveness, professional quality, and support of mission objectives. Manages resources to support the United States Air Force Internal Information Program. Operates radio and television broadcast equipment. Arranges remote broadcast coverage of special events.
2.3. Supervises radio and television broadcast operations. Coordinates maintenance of radio and television equipment. Directs positioning of lights, cameras, microphones, properties, and personnel. Conducts broadcast rehearsals as necessary. Coordinates maintenance and acquisition of broadcast equipment.
2.4. Performs as talent in programs produced for AFRT. Conducts radio and television interviews. Performs as disc jockey, newscaster, sports announcer and producer.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: radio and television writing and broadcasting; regulations and policies governing AFRT and other public affairs activities; broadcast equipment capabilities; and methods of researching public attitudes.
3.2. Education. For entry into this specialty, completion of high school or general educational development equivalency is mandatory.
3.3. Training. For award of AFSC 3N032, completion of the basic broadcasting course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3N052. Qualification in and possession of AFSC 3N032. Also, experience in broadcasting and directing television or radio programs.
3.4.2. 3N072. Qualification in and possession of AFSC 3N052. Also, experience in performing or supervising broadcast activities.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty:
3.5.1.1. A favorable evaluation of a voice audition.
3.5.1.2. Ability to type 20 words per minute.
3.5.2. For entry, award, and retention of these AFSCs, absence of any speech impediment, and ability to read aloud and speak distinctly.

CEM Code 3N100
AFSC 3N190, Superintendent
AFSC 3N171*, Craftsman
Journeyman AFSC 3N151*
Apprentice AFSC 3N131*
Helper AFSC 3N111*

REGIONAL BAND

1. Specialty Summary. Manages, supervises, and performs as an instrumentalist, music arranger, vocalist, military band support technician, or audio and lighting engineer in military band activities. Related DoD Occupational Subgroup: 450.

2. Duties and Responsibilities:
2.1. Plans, organizes, directs, and inspects military band activities. Analyzes local musical requirements and provides appropriate services. Plans and schedules such activities as rehearsals, drills, training classes, and performances. Provides and accounts for equipment, space, supplies, and other facilities required by band. Advises higher authority on band status, equipment maintenance and adequacy, personnel training, and operational efficiency. Coordinates activities such as concerts, parades, and rehearsals with interested agencies and higher authority. Directs full band, sectional, and other group rehearsals. Directs the operation of bands in military and civilian performances, including parades, ceremonies, and concerts. Manages band administrative and support functions. Auditions personnel such as newly assigned members, civilians interested in enlistment for military band, and assigned personnel for promotional and training purposes.
2.2. Supervises and performs band functions. Performs on one or more musical instruments in concert and marching bands, dance band, and other musical groups. Performs under conductor's direction. Performs in small musical ensembles such as brass or woodwind quartets, quintets, or other combinations. Drills with marching band and executes formations on drum major's or leader's verbal or baton signal, while playing or carrying a musical instrument. Plays from music or memory while standing or marching. Performs as marching band drum major during drills, parades, and ceremonies. Arranges and adapts music for various musical combinations. Reads and sings vocal musical parts, and memorizes vocal parts for public performance. Operates and maintains audio reinforcement, recording, lighting, video, and multimedia equipment used during band rehearsals, training, and performances.
2.3. Performs band support functions such as operations, logistics, publicity, and administration.
2.4. Performs minor maintenance on musical equipment. Arranges facilities for rehearsals and performances. Copies and maintains musical parts and performs band support functions.

3. Specialty Qualifications:
3.1. Knowledge. The following knowledge is mandatory as indicated:
3.1.1. For all, knowledge is mandatory of: musical conducting and rehearsal techniques; music theory (written and aural); ranges, transpositions, and capabilities of instruments authorized for Air Force bands; band music repertoire; publications and regulations on training, administration, and operation of Air Force bands; and minor maintenance and repair of musical equipment.
3.1.2. For shredout T, knowledge is mandatory of band support functions such as operations, logistics, publicity, or administration.
3.1.3. For shredout V, knowledge is mandatory of: audio reinforcement, recording, lighting, video, and multimedia techniques, and their applications within the entertainment industry; reading musical scores; executing conductor cues; musical ensemble balance; and equipment calibration, maintenance, and repair.
3.2. Education. For entry into this specialty, completion of courses in the following is desirable: music theory, harmony, ear training, ranges, transposition, and operating and applying latest audio reinforcement recording, lighting, video, and multimedia equipment and techniques.
3.3. Experience. The following experience is mandatory for award of the AFSC indicated.
3.3.1. 3N151X. Qualification in and possession of AFSC 3N131X. Also, experience performing as an instrumentalist, music arranger, vocalist, military band support technician, or audio and lighting engineer.
3.3.2. 3N171X. Qualification in and possession of AFSC 3N151X. Also, qualification as an instrumentalist, music arranger, vocalist, military band support technician, or audio and lighting engineer. Also, experience performing with, bands, choruses, or similar groups (except shredout T).
3.3.3. 3N190. Qualification in and possession of AFSC 3N171X. Also, experience directing and planning functions such as providing musical services, training musical groups, performing administrative functions; and experience performing with bands, choruses, or similar groups.

3.4. Other. For award of suffix Z, qualification in and possession of one suffix (qualification with one of the musical instruments listed in paragraph 4 of the specialty description) is mandatory.

4. * Specialty Shredouts

Suffix	*Portion of AFS to Which Related*
A	Clarinet
B	Saxophone
C	Bassoon
D	Oboe
E	Flute or Piccolo
F	French Horn
G	Cornet or Trumpet
H	Baritone or Euphonium
J	Trombone
K	Tuba
L	Percussion
M	Piano
N	Guitar
P	Music Arranger
R	Vocalist
S	Electric Bass/String Bass
T	Military Band Support (USAF Band or the USAF Band of the Rockies)
V	Audio and Lighting Engineer
Z	Instrumentalist, General (Air National Guard Bands)

CEM Code 3N200
AFSC 3N291 Superintendent

Craftsman AFSC 3N271
Journeyman AFSC 3N231
Helper AFSC 3N211

PREMIER BAND

1. Specialty Summary. Manages, supervises, and performs as an instrumentalist, music arranger or copyist, vocalist, or audio and lighting engineer in the USAF Band or the USAF Band of the Rockies. Related DoD Occupational Subgroup: 450.

2. Duties and Responsibilities:
2.1. Plans, organizes, directs, and inspects military band activities. Analyzes local musical requirements and provides appropriate services. Plans and schedules such activities as rehearsals, drills, training classes, and performances. Provides and accounts for equipment, space, supplies, and other facilities required by band. Advises higher authority on band status, equipment maintenance and adequacy, personnel training, and operational efficiency. Coordinates activities such as concerts, parades, and rehearsals with interested agencies and higher authority. Directs full band, sectional, and other group rehearsals. Directs the operation of bands in military and civilian performances, including parades, ceremonies, and concerts. Manages band administrative and support functions. Auditions personnel such as newly assigned members, civilians interested in enlistment for military band, and assigned personnel for promotional and training purposes.
2.2. Supervises and performs band functions. Performs on one or more musical instruments in concert band, string ensemble, dance band, marching band, or other musical groups. Performs under conductor's direction. Performs in small musical ensembles such as brass, string, or woodwind quartets, quintets, and other combinations. Drills with marching band and executes formations on drum major's or leader's verbal or baton signal, while playing or carrying a musical instrument. Plays from music or memory while standing or marching. Performs as marching band drum major during drills, parades, and ceremonies. Arranges and adapts music for various musical combinations. Inscribes music for use by musicians in various ensembles. Reads and sings vocal musical parts, and memorizes vocal parts for public performance. Performs in chorus and other vocal ensembles. Performs as vocal soloist with various accompanying ensembles. Operates and maintains audio reinforcement, recording, lighting, video, and multimedia equipment used during band rehearsals, training, and performances.
2.3. Performs minor maintenance on musical equipment. Arranges facilities for rehearsals and performances. Copies and maintains musical parts and performs band support functions.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: musical conducting and rehearsal techniques; music theory ranges, transpositions, and capabilities of instruments authorized for Air Force bands; band music repertoire; publications and regulations on training, administration, and operation of Air Force bands; and minor maintenance and repair of musical equipment.
3.2. Education. For entry into this specialty, completion is desirable of courses in music theory, harmony, ear training, ranges, and transpositions; and operation and application of the latest audio reinforcement, recording, lighting, video, and multimedia equipment and techniques.
3.3. Training. Not used.
3.4. Experience. The following experience is mandatory for award of AFSC indicated:
3.4.1. 3N271. Qualification in and possession of AFSC 3N231. Also, experience performing with bands, orchestras, choruses, or similar groups.
3.4.2. 3N291. Qualification in and possession of AFSC 3N271. Also, experience directing and planning functions such as providing musical services, training musical groups, and performing administrative functions.
3.5. Other. For entry into this specialty, qualification in and possession of AFSC 3N151X, or prior qualification as a musician is mandatory.

Attachment 27

SECURITY FORCES CAREER FIELD (3P)

INTRODUCTION
(CHANGED 31 OCT 97)

The Security Forces (SF) Career Field performs force protection duties. SF duties require the use of force, up to and including the use of deadly force. SF duties ensure combat capability through the functions of installation security, nuclear and conventional weapon systems and resources security, air base defense, law enforcement, information security, military working dog activities, and combat arms training and maintenance. Security Forces participate in contingency operations. Personnel in this career field will be deployed and employed in sensitive or hostile environments created by terrorism, sabotage, nuclear, chemical, biological, or conventional warfare. Security Force members perform the military police function within the Air Force.

This career field does not have primary responsibility for the functions of operations security; computer security; communications security; and vehicle traffic engineering and traffic safety. Responsibility for these functions is included in other career fields. The following is a complete listing of AFSCs for the Security Forces Career Field.

SECURITY FORCES (3P)											
Input or Helper Level		**Apprentice or Semiskilled Level**		**Journeyman or Skilled Level**		**Craftsman or Advanced Level**		**Superintendent Level**		**Chief Enlisted Manager Level**	
3P011	Security Forces	3P031	Security Forces	3P051	Security Forces	3P071	Security Forces	3P091	Security Forces	3P000	Security Forces
A	Mil Working Dog Handler	A	Mil Working Dog Handler	A	Mil Working Dog Handler						
B	Combat Arms	B	Combat Arms	B	Combat Arms						

CEM Code 3P000
AFSC 3P091, Superintendent
AFSC 3P071, Craftsman
Journeyman AFSC 3P051
Apprentice AFSC 3P031
Helper AFSC 3P011

SECURITY FORCES
(Changed 31 Oct 97)

1. Specialty Summary. Leads, manages, supervises, and performs security force (SF) activities, including installation, weapon system, and resource security; antiterrorism; law enforcement and investigations; military working dog function; air base defense; armament and equipment; training; pass and registration; information security; and combat arms. Related DoD Occupational Subgroup: 070.

2. Duties and Responsibilities:
2.1. Leads, manages, supervises, and performs force protection duties, including use of deadly force to protect personnel and resources. Protects nuclear and conventional weapons systems and other resources. Performs air base defense functions contributing to the force protection mission. Controls and secures terrain inside and outside military installations. Defends personnel, equipment, and resources from hostile forces. Operates in various field environments, performs individual, and team patrol movements, both mounted and dismounted, tactical drills, battle procedures, convoys, military operations other than war, antiterrorism duties, and other special duties. Operates communications equipment, vehicles, intrusion detection equipment, crew-served weapons, and other special purpose equipment. Applies self-aid buddy care, life saving procedures, including cardiopulmonary resuscitation, as first responder to accident and disaster scenes.
2.2. Provides armed response and controls entry. Detects and reports presence of unauthorized personnel and activities. Implements security reporting and alerting system. Enforces standards of conduct, discipline, and adherence to laws and directives. Directs vehicle and pedestrian traffic. Investigates motor vehicle accidents, minor crimes, and incidents. Operates speed measuring, drug and alcohol, and breath test devices. Apprehends and detains suspects. Searches persons and property. Secures crime and incident scenes. Collects, seizes, and preserves evidence. Conducts interviews of witnesses and suspects. Obtains statements and testifies in official judicial proceedings. Responds to disaster and relief operations. Participates in contingencies.
2.3. Develops plans, policies, procedures, and detailed instructions to implement SF programs. Plans, organizes, and schedules SF activities. Provides oversight, guidance, and assistance to commanders with the application of information, personnel, and industrial security programs. Operates pass and registration activities. Supervises and trains SF augmentees. Provides on-scene supervision for security forces. Inspects and evaluates effectiveness of SF personnel and activities. Analyzes reports and statistics.
2.4. Provides guidance on employment and utilization of military working dog teams. Ensures proficiency training and certification standards are maintained. Employs military working dogs to support world-wide security force operations and executive agency requirements. Ensures health and welfare of military working dogs. Trains handlers and military working dogs on all aspects of military working dog training. Acts as an intruder in dog bite and hold training. Reports and reacts to dog alerts. Maintains dog training and usage records. Responsible for storage, handling, and security of drug and explosive training aids.
2.5. Leads, manages, supervises, and implements ground weapons training programs. Operates SF armories. Controls and safeguards arms, ammunition, and equipment. Instructs ground weapons qualification training. Provides guidance on weapons placement to security forces and ground defense force commanders. Inspects ground weapons and replaces unserviceable parts. Analyzes malfunctions by inspection and serviceability testing. Uses precision gauges, testing instruments, and special tools to adjust parts and operating mechanisms. Function-fires weapons for accuracy and serviceability. Controls and operates firing ranges and associated facilities to include supervising construction and rehabilitation.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: Weaponry, laws, directives, programs, policies, and procedures governing SF activities; installation security; weapon system and resource security; anti-terrorism; law enforcement and investigations; military working dog function; air base defense; armament and equipment; training; pass and registration; information security; and combat arms.
3.2. Education. For entry into this specialty, completion of high school with courses in government, behavioral science, computer, and communicative skills is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 3P031. Completion of either the apprentice security course or law enforcement apprentice course, and Air Force Level 1, Ground Combat Skills course.

3.3.2. 3P0X1A. Completion of the military working dog handler course.
3.3.3. 3P0X1B. Completion of the basic combat arms course.
3.3.4. 3P071. Completion of the advanced 7-skill level Security Forces course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3P051. Qualification in and possession of AFSC 3P031. Also, experience in SF functions such as weaponry; controlling entry into and providing internal control within installations and restricted areas; response force tactics; air base defense concepts and procedures; terrorist threat response techniques; alarm monitor duties; control center duties; traffic control; patrolling; or accident investigation.
3.4.2. 3P051A. Qualification in and possession of AFSC 3P031A. Also, experience in functions such as SF weaponry, maintaining dog handling equipment, caring for and training military working dogs, and reacting to dog alerts.
3.4.3. 3P051B. Qualification in and possession of AFSC 3P031B. Also, experience in functions such as classroom instruction, marksmanship fundamentals and techniques, weapons and range safety, subdepot level firearm maintenance and repair, range operations and safety criteria, or controlling and storing weapons and ammunition.
3.4.4. 3P071. Qualification in and possession of AFSC 3P051/A/B. Also, experience supervising or performing functions such as weapon systems and resource security, air base defense, law enforcement, military working dog functions, or combat arms functions.
3.4.5. 3P091. Qualification in and possession of AFSC 3P071. Also, experience in leading and directing SF activities.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.1.2. For entry into 3P0X1A/B, qualification in and possession of 3P031/51.
3.5.2. For entry, award, and retention of these AFSCs:
3.5.2.1. No recorded evidence of personality disorder.
3.5.2.2. Visual acuity correctable to 20/20 in one eye and 20/30 in the other.
3.5.2.3. Qualification to bear firearms according to AFI 31-207, *Arming and Use of Force by Air Force Personnel*.
3.5.2.4. Never been convicted by a general, special, or summary courts-martial.
3.5.2.5. Never received nonjudicial punishment under the Uniform Code of Military Justice (UCMJ) which resulted in either reduction or suspended reduction in grade, or correctional custody for offenses involving substantiated drug abuse as defined in AFI 36-2701, *Social Actions Program*, acts of larceny, wrongful appropriation, robbery, burglary, housebreaking, or misconduct in combat defined in UCMJ articles 99-106.
3.5.2.6. Never been convicted by a civilian court for a major or serious offense, or serious traffic offense, nor exceeded the maximum amount of minor traffic or non-traffic offenses allowed for entrance into the Air Force according to AFI 36-2002, *Regular Air Force and Special Category Accessions*.
3.5.2.7. Ability to speak distinctly.
3.5.2.8. Individuals who have had their spleen removed are not eligible for assignment to the military working dog program or any dog functions.
3.5.3. For award and retention of AFSCs 3P031/31A/31B, 3P051/51A/51B, 3P071/91, and 3P000, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

4. * Specialty Shredouts

Suffix	*Portion of AFS to Which Related*
A	Military Working Dog Handler
B	Combat Arms

NOTE: Suffixes A and B are applicable to the 1-, 3-, and 5-skill levels only.

★Attachment 28

PRINTING MANAGEMENT CAREER FIELD (3R)

★DELETED.

Attachment 29

MISSION SUPPORT CAREER FIELD (3S)

INTRODUCTION

The Mission Support Career Field includes functions and activities of personnel, personnel system management (PSM), social actions, and education and training.

Personnel and PSM functions encompass classifying, assigning, promoting, base reenlisting and separating military personnel; personnel systems management; controlling, administering, and interpreting personnel tests used to measure general learning ability, specific aptitudes, job proficiency, interests, and other pertinent human variables; processing officer effectiveness reports and airman performance reports; monitoring quality control programs; advising military personnel and their dependents on personal affairs; preparing and maintaining qualification records and other personnel records and reports; developing and maintaining manual and mechanized personnel records and reports; occupational surveys; and collecting elementary psychological data for human resources research.

Social actions functions include counseling, educational, and administrative functions to support social actions program.

Education and training activities include training systems development and management, and education services. Training systems involves developing and managing training programs; supervising training activities; providing advice and guidance on enlisted specialty training (EST); and EST advisory services and duties associated with other training functions. Education services involves administering off-duty education programs; advisement on education programs; and maintaining educational services facilities including office libraries containing educational materials and bulletin boards.

The duty of airmen assigned to separation functions as principal duty will be identified by AFSCs 35071/51. The duty of airman recruiters assigned to the United States Air Force Recruiting Service will be identified by Special Duty Identifier 8R000. The following is a complete listing of AFSCs for the Mission Support Career Field.

MISSION SUPPORT (3S)											
Input or Helper Level		**Apprentice or Semiskilled Level**		**Journeyman or Skilled Level**		**Craftsman or Advanced Level**		**Superintendent Level**		**Chief Enlisted Manager Level**	
3S011	Personnel	3S031	Personnel	3S051	Personnel	3S071	Personnel	3S090	Personnel	3S000	Personnel
3S012	Personnel Sys Management	3S032	Personnel Sys Management	3S052	Personnel Sys Management	3S072	Personnel Sys Management				
3S111	Equal Opportunity & Treatment	3S131	Equal Opportunity & Treatment			3S171	Equal Opportunity &Treatment	3S191	Equal Opportunity &Treatment	3S100	Equal Opportunity & Treatment
3S211	Education & Training	3S231	Education & Training	3S251	Education & Training	3S271	Education & Training	3S291	Education & Training	3S200	Education & Training

CEM Code 3S000 **Superintendent AFSC 3S090**

PERSONNEL

1. Specialty Summary. Manages military personnel activities and programs. Activities include personnel system management (PSM), classification, assignment, promotion, personal affairs, reenlistment, separation, records, and reports. Programs include career advisory, proficiency pay, selective reenlistment bonus, personnel reliability, and personnel quality control. Related DoD Occupational Subgroup: 500.

2. Duties and Responsibilities:
2.1. Plans, organizes, and directs military personnel activities and personnel data system (PDS) management. Determines facility, equipment, security, and supply requirements for personnel and PSM activities. Develops manning requirements and allocates personnel to authorized positions. Coordinates personnel actions, plans, and PDS activities with other agencies such as medical, chaplain, information processing, legal, budget, materiel, and operations. Ensures integration of personnel and PDS programs. Maintains liaison with users. Promotes customer satisfaction. Oversees PSM activities responsible for analysis, design, programming, computer operations, personnel system security, and equipment management. Establishes priorities and monitors status of personnel and PDS programs and functions.
2.2. Evaluates military personnel and PSM functions and activities. Reviews and inspects PSM operations for compliance with policies, directives, and procedures. Monitors implementation and application of personnel programs and procedures. Ensures timeliness, propriety, and accuracy of transactions. Analyzes statistical data and reports to determine effectiveness and efficiency of PDS actions. Identifies adverse trends that will impact individual personnel records or effectiveness of personnel programs. Initiates corrective actions, and develops or revises procedures to improve effectiveness and eliminate deficiencies. Monitors PDS equipment use, scheduling, processing, and maintenance.
2.3. Manages personnel and PSM functions. Resolves complex issues involving personnel programs, interpretation of policies and procedures, and use and application of PDS and its products. Provides counseling on personnel programs and helps users define PDS requirements. Monitors personnel data coding, flow, and display. Oversees personnel data base design to enhance information collection and retrieval. Monitors operational test and evaluation efforts to determine errors in logic or information flow. Studies functions such as interviewing and counseling methods, personnel use, and unit staffing.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: officer and airman classification structures and procedures; test administration and interpretation; career advisory and guidance; military personnel assignment, promotion, separation, and enlistment programs and procedures; in and out processing; personal affairs policies and procedures; electronic data processing equipment; PSM and PDS capabilities and applications; communications and computer resource security; and personnel readiness, war planning, and mobilization activities and procedures.
3.2. Education. Not used.
3.3. Training. Not used.
3.4. Experience. For award of AFSC 3S090, qualification in and possession of AFSC 3S071 or 3S072 is mandatory. Also, experience is mandatory in managing or directing personnel functions such as: officer and airman classification; awards and decorations; promotions, separations, assignments, reenlistments, or personal affairs; in and out processing; customer service; preparing and maintaining automated and manual personnel records; personnel readiness; or PSM and PDS operations.
3.5. Other. Not used.

AFSC 3S071, Craftsman **Apprentice AFSC 3S031**
AFSC 3S051, Journeyman **Helper AFSC 3S011**

PERSONNEL

1. Specialty Summary. Supervises and performs personnel activities and functions, including personnel action requests; source documents; unit, field, and master personnel records; and orderly room tasks. Interviews and classifies airmen and officers. Advises on career progression. Updates personnel data system (PDS) records. Manages Air Force retention programs, assists military personnel in making career decisions, and advises on personal affairs matters. Ensures compliance with personnel policies, directives, and procedures. Related DoD Occupational Subgroup: 500.

2. Duties and Responsibilities:

2.1. Advises officers and airmen on military personnel issues and programs. Conducts interviews to determine individual interests, qualifications, and personnel data. Briefs provisions of personnel programs such as assignments, promotions, separations, retirements, personal affairs, retention, classification, training and retraining, and career progression. Provides information and guidance for career decisions. Helps commanders develop career information and motivation programs. Manages selective reenlistment and career airman reenlistment reservation programs. Counsels airmen on reenlistment opportunities and benefits. Monitors retention programs and provides reports and statistics. Helps users determine training requirements, methods, and procedures.

2.2. Creates, maintains, and audits personnel records. Records information in unit, field, and PDS records. Prepares and maintains personnel records, aeronautical orders, and personnel action requests. Prepares and processes documentation for administration of quality control programs. Reviews personnel records, and interviews individuals to ensure accuracy of information. Compares basic records with source documents, transaction registers, and management products. Inspects records, including immunization, master personnel, and command and field personnel records. Reviews and processes evaluation reports.

2.3. Performs personnel actions. Updates computerized personnel data. Conducts in and out processing. Monitors personnel readiness programs. Schedules individuals for processing personnel actions such as reenlistment, promotion, separation, retirement, or reassignment. Administers standard tests, acts as test monitor, scores tests, and records results. Prepares and processes correspondence, forms, and PDS transactions. Advises members on official and personal obligations incident to relocation, training, and promotion. Prepares and processes relocation actions. Processes documents required to support service awards and decorations. Prepares and maintains Air Force Aid Society records and reports. Prepares DD Form 93, **Record of Emergency Data**. Maintains files of correspondence, directives, instructions, and other publications.

2.4. Provides casualty assistance. Administers casualty program. Prepares related reports and documents. Assists next of kin of deceased and missing personnel to apply for death gratuity pay, arrears of pay, veterans affairs, social security, government and commercial life insurance, and other benefits.

2.5. Oversees personnel activities and functions. Inspects personnel activities for compliance with policies and directives. Reports discrepancies and recommends corrective action. Monitors personnel actions for timeliness, propriety, and accuracy. Ensures proper counseling of individuals on personnel programs, procedures, and benefits. Organizes and compiles management data and submits reports.

2.6. Performs orderly room administrative functions. Prepares and processes administrative support actions relating to unit programs such as military sponsor, weight control, squadron information, and enlisted and officer professional military education. Processes dental, immunization, and physical rosters. Manages unit leave control program. Maintains suspense system for personnel actions and correspondence. Maintains duty status changes and prepares unit duty rosters. Requisitions and maintains current study reference material for the airman promotion system. Prepares and processes Article 15s, letters of reprimand, investigation reports, unfavorable information files, and separation actions.

3. Specialty Qualifications:

3.1. Knowledge. Knowledge is mandatory of: officer and airman classification systems and procedures; preparing and maintaining personnel records; assignment, promotion, testing, customer service, quality force, personnel readiness, and mobilization procedures; interviewing and counseling techniques; policies and procedures relating to administrative communications, correspondence, messages, and general office management; overall organizational structure and its interrelationship with the mission; terminology and procedures employed within functional areas assigned; policies, programs, and procedures of agencies administering and providing benefits to military personnel, retirees, and dependents; PDS capabilities and applications; occupational survey procedures; personal affairs programs; and principles, policies, and concepts of personnel management.

3.2. Education. For entry into this specialty, completion of high school with courses in English composition and speech is desirable.

3.3. Training. For award of AFSC 3S031, completion of a basic personnel course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3S051. Qualification in and possession of AFSC 3S031. Also, experience in functions such as maintaining personnel records, counseling, or classification and assignments.
3.4.2. 3S071. Qualification in and possession of AFSC 3S051. Also, experience performing or supervising one or more of the functions associated with preparing and maintaining PDS and manual records, personnel classification or usage, quality force management, auditing personnel records and reports, or career progression counseling.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, ability to speak distinctly.
3.5.2. For award of AFSC 3S031, ability to operate a typewriter at a minimum rate of 20 words per minute WPM.
3.5.3. For award of AFSC 3S051, ability to operate a typewriter at a minimum rate of 25 wpm.

AFSC 3S072, Craftsman **Apprentice AFSC 3S032**
AFSC 3S052, Journeyman **Helper AFSC 3S012**

PERSONNEL SYSTEM MANAGEMENT (PSM)
(Changed 31 Oct 98)

★1. Specialty Summary. Supervises and performs PSM activities and functions. Included is operation, application and hardware maintenance, and management of computer systems supporting Air Force personnel management. Designs and develops personnel data systems (PDS) programs and procedures and provides documentation. Analyzes and develops plans for collecting and processing and output of personnel data. Analyzes, identifies, and tracks trends in data integrity and system performance. Monitors personnel information systems, and oversees military personnel data activities. Related DoD Occupational Subgroup: 531.

★2. Duties and Responsibilities:
2.1. Manages, supervises and performs (PDS) management functions. Advises on management and analysis of computerized personnel data. Assists military personnel flight (MPF) chief and unit commanders manage the PDS. Prepares, evaluates, and controls PDS special inquiry products. Monitors and reviews personnel data traffic and processing. Verifies data accuracy and system processing performance, identifies problem areas and trends, and initiates corrective action. Ensures timely processing of personnel actions. Reviews products for adequacy and accuracy of automated file systems. Analyzes Headquarters USAF and major command PDS procedures affecting MPF and Commanders Support Staff (CSS) operation. Develops and implements local procedures to comply with PDS policy.
2.2. Performs PDS operations functions. Prepares and operates personnel systems equipment (PSE). Selects and mounts tape and disc media. Selects input or output files. Loads programs, files, and data bases. Selects mode of operation. Operates consoles and responds to messages or signals displayed by PSE. Isolates causes and recovers from machine stops or malfunctions. Answers inquiries from users. Operates other information processing equipment. Troubleshoots problems with machine runs, equipment, and communications. Coordinates with functional users, analysts, and interface system operators on resource capability, operations, reports, output products, and production problems.
2.3. Monitors and controls system products and magnetic media librarian functions. Schedules and coordinates requirements and processing priorities. Evaluates problems with production runs and determines corrective action. Informs users of hardware, software, or personnel input problems. Locates, stores, and accounts for electronic media, and prepares media for use. Ensures PDS output is timely and accurate, and conforms to established procedures. Performs data base recovery and updates. Applies system security techniques and monitors compliance with directives.
2.4. Performs operator maintenance and administrative functions. Maintains supply levels and records. Performs operator maintenance on PSE and peripheral devices. Inspects equipment, supplies, and work areas. Coordinates repair of PSE. Complies with directives governing physical, operational, and communication security. Rates effectiveness of personnel systems activities. Evaluates PSE by monitoring equipment maintenance, reviewing performance records, and checking system and equipment use.
2.5. Interfaces with personnel computer systems activities. Maintains liaison with the Air Force Personnel Center and the servicing Defense Mega Center (DMC). Schedules PDS modifications with the DMC to ensure timely implementation and efficient operation. Coordinates computer system changes with personnel work centers, CSS, and using activities. Monitors and controls personnel data transmissions. Updates locally maintained computer program tables. Verifies PDS modifications are working as designed.
2.6. Develops and revises personnel data programs. Observes systems operations, and reviews output. Identifies and advises on system deficiencies and needs. Uses computer logic to revise personnel systems applications. Corrects deficiencies and creates new concepts based on directed changes. Establishes criteria for new or existing personnel data collection or processing applications and implements revisions.
2.7. Oversees personnel data processing programs. Plans, organizes, develops, implements, and controls personnel data collection, recording, and reporting programs. Determines PDS requirements and priorities to meet units' needs. Analyzes personnel data for degree of accuracy and need for additional validity of relationship tests.

3. Specialty Qualifications:

★3.1. Knowledge. Knowledge is mandatory of: PDS network, personnel data concepts including data base structures and data base administration; operation and maintenance of electronic data processing equipment; PDS program design, logic, system operation, and programming techniques; automated data processing procedures; personnel systems interface with other functional area data systems; Air Force military personnel organization and functions; monitoring, controlling, processing, and recovering military personnel data traffic; logic, limitations, and capabilities of computers and related data processing devices and systems; communications systems and technology; structure and editing of input and output data; security practices and procedures; customer service relations; and data systems communications functions.

3.2. Education. For entry into this specialty, completion of high school with courses in mathematics, data processing, or computer science is desirable.

3.3. Training. For award of AFSC 3S032, completion of the basic PSM course is mandatory.

3.4. Experience. The following experience is mandatory for award of the AFSC indicated:

★3.4.1. 3S052. Qualification in and possession of AFSC 3S032. Also, experience in functions such as preparing and maintaining personnel data by electronic systems, developing data collection and reporting programs, or analysis and audit of automated personnel data reports.

3.4.2. 3S072. Qualification in and possession of AFSC 3S052. Also, experience supervising PSM functions.

3.5. Other. The following are mandatory for entry into this specialty:

3.5.1. Ability to speak distinctly.

3.5.2. Possession of AFSC 3S051 or 3S071.

CEM Code 3S100
AFSC 3S191, Superintendent

Craftsman AFSC 3S171
Journeyman AFSC 3S131
Helper AFSC 3S111

EQUAL OPPORTUNITY AND TREATMENT
(Changed 30 Apr 97)

1. Specialty Summary. Manages equal opportunity and treatment (EOT) and related education programs. Performs educational and administrative functions to support EOT programs, and supervises EOT activities. Related DoD Occupational Subgroup: 501.

2. Duties and Responsibilities:
2.1. Plans, organizes, and directs EOT activities. Develops EOT and other related education programs. Promotes an environment where individuals will be treated with dignity and respect regardless of race, color, religion, national origin, or sex. Provides advice and consultation, education, mediation, and referral services to ensure social problems don't negatively impact mission effectiveness. Coordinates with staff agencies to support EOT programs and policies. Supervises EOT activities and services.
2.2. Advises personnel on EOT responsibilities, policies, and programs. Provides information to those seeking assistance. Serves as an authoritative program data source for the installation commander. Uses climate assessment tools (AF/DOD surveys, individual and group interviews, and statistical trend data) and techniques to evaluate unit or wing or both human relations environment.
2.3. Performs administrative functions including but not restricted to budget, preparing reports, and program statistics.
2.4. Organizes and performs EOT and human relations activities. Develops and assists in the preparation of Wing commander EOT policy letters. Publicize and promotes EOT program objectives and goals to senior leadership. Initiates and maintains case files. Reviews records and data to clarify complaints. Helps personnel resolve human relations problems. Identifies existing and potential base equal opportunity and other human relations problems, and advises commanders, supervisors, and personnel concerning possible solutions. Presents briefings to support EOT, and other human relations activities. Prepares news media articles and maintains historical data files. Prepares lesson plans and support material for human relations education. Conducts lectures, group discussions, and seminars to improve an organization's human relations climate, and to prevent and resolve related problems. Evaluates education program activities, and coordinates scheduling of base human relations education. Provides mediation, coordinates and monitors the Affirmative Action program, and conducts unit climate assessments to base organizations and geographically separated units. Identifies and obtains support from base and civilian referral resources. Assist the Wing and Inspector General during the conduct and resolution of EOT complaints, inquiries and investigations. Advises the commander on reporting Human Relations Incidents, and Dissident and protest or extremist group activity. Advises personnel on appropriate grievance and appeal procedures and how to file complaints of reprisal. Prepares wing climate assessment briefings and reports for the commander. Serves as advisor for installation special observance programs. Provides oversight on special interest items as dictated by higher headquarters, e.g., sexual harassment, extremist group activities, etc.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: principles, policies, and procedures for administering Air Force EOT programs; regulations and procedures of other government and civilian agencies administering and providing services to prevent and eliminate social problems; EOT education and instruction programs; interviewing and counseling techniques; and preparing and maintaining personnel case files and records.
3.2. Education. For entry into this specialty, completion of high school with courses in social science, psychology, sociology, human resources and behavior, organizational development, and speech is desirable.
3.3. Training. For award of AFSC 3S131, completion of the Defense Equal Opportunity Management Institute course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3S171. Qualification in and possession of AFSC 3S131. Also, experience performing or supervising functions such as organizing and administering EOT programs and instructing on EOT issues and problems.
3.4.2. 3S191. Qualification in and possession of AFSC 3S171. Also, experience managing equal opportunity and education in human relations activities.

3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty:
3.5.1.1. Prior qualification in any AFSC at the 5-skill level or higher (or 3-skill level if no 5-skill level exists).
3.5.1.2. Ability to speak distinctly and communicate well with others.
3.5.1.3. No record of disciplinary action or financial irresponsibility.
3.5.1.4. Outstanding appearance, high moral standards, and exceptional military bearing and conduct.
3.5.1.5. No previous record of having failed to graduate from a formal EOT training course.
3.5.1.6. If AFSC 3S1X1 was previously withdrawn, submit complete details to HQ AFPC/DPSFS for review and approval.

CEM Code 3S200
AFSC 3S291, Superintendent
AFSC 3S271, Craftsman
Journeyman AFSC 3S251
Apprentice AFSC 3S231
Helper AFSC 3S211

EDUCATION AND TRAINING
(Changed 31 Oct 94)

1. Specialty Summary. Conducts education and training (E&T) tasks for maintenance, operations, and support training; education services; curriculum development; and instructor activities. Develops, delivers, and evaluates E&T programs and oversees E&T activities. Related DoD Occupational Subgroup: 570.

2. Duties and Responsibilities:
2.1. Develops, delivers, and evaluates E&T programs. Applies instructional system development (ISD) process. Collects and analyzes job performance data, and conducts occupational analysis surveys. Compares individual knowledge and skills with job standards, and identifies E&T requirements. Develops and validates standards. Determines adequacy of existing courses and programs. Screens and validates formal E&T requirements. Develops objectives to meet Air Force academic, vocational, and technical standards. Determines most cost effective method to deliver E&T. Sequences objectives; selects instructional design, method, and media; and identifies resource needs. Creates materials to support objectives. Develops tests and standards to measure individual abilities. Evaluates E&T programs, recommends actions to correct deficiencies, and oversees evaluations and surveys. Conducts, validates, and revises programs and instruction. Coordinates user feedback with career field managers and E&T providers, and monitors corrective actions.
2.2. Administers E&T programs. Serves as E&T program manager. Consults on ISD process and career field E&T plans (CFETP). Advises on E&T materials and services. Conducts work center visits, and organizes programs to develop and conduct job site training. Advises on unit and individual E&T progress. Identifies E&T providers, capabilities, and resources, and ensures availability of materials. Recommends revisions to E&T programs and CFETPs. Helps obtain and analyze history of E&T achievements, establish goals, and enroll in classes, courses, and programs. Prepares and maintains records, files, and materials. Maintains liaison with activities conducting, scheduling, or supporting E&T requirements. Coordinates and schedules events and facility use. Requests course quotas; monitors formal E&T process; and maintains records of course attendance, withdrawals, completions, and costs. Manages automated systems and products, measurement tools, multimedia and maintenance qualification training programs, and the extension course program. Coordinates wartime task training. Manages weighted airman promotion system study material program.
2.3. Oversees E&T activities. Organizes E&T programs to achieve educational goals and mission requirements. Prepares directives to manage and control E&T programs. Implements policies and coordinates changes. Develops and manages reporting procedures. Maintains E&T data, and provides statistical reports on programs and operations. Monitors progress, identifies problem areas, determines causes, recommends corrective action, and provides counsel. Organizes and controls facilities, supplies, and equipment to support E&T needs. Forecasts E&T requirements, determines validity, and assesses cost. Participates in utilization and training workshops, training planning teams, and training planning groups.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: principles, policies, and procedures of Air Force E&T programs; interviewing and counseling techniques; training techniques and instruction methods; task analysis procedures, learning process, curriculum development, training evaluations, and E&T systems and products; effective writing skills; editing practices; instructional media application, training reporting, program and curriculum validation, and implementation procedures; training program management; scheduling training events and facilities; conducting assistance visits and training meetings; work center and individual job qualification standard development; education institution registration requirements; military personnel classification system and policies; application of communicative interpersonal skills; and distance learning concepts.
3.2. Education. For entry into this specialty, completion of high school or general educational development equivalency is mandatory. Academic courses in English grammar and composition, speech, psychology, guidance, and sociology are desirable.
3.3. Training. For award of AFSC 3S231, completion of the basic E&T course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3S251. Qualification in and possession of AFSC 3S231. Also, experience conducting or developing education or training programs.
3.4.2. 3S271. Qualification in and possession of AFSC 3S251. Also, experience conducting, supervising, or developing education or training programs.
3.4.3. 3S291. Qualification in and possession of AFSC 3S271. Also, experience managing education or training activities.
3.5. Other. The following are mandatory as indicated:

3.5.1. For entry into this specialty, prior qualification in any AFSC at the 5-skill level or higher (or 3-skill level if no 5-skill level exists).
3.5.2. For entry, award, and retention of these AFSCs, ability to speak distinctly.

Attachment 30

MANPOWER CAREER FIELD (3U)

INTRODUCTION

The Manpower Career Field encompasses manpower management activities, including developing and maintaining manpower standards, analysis of methods, procedures, organizational structures, manning authorizations, manpower use, military-civilian mix, manpower force elements, contractual services, and using various data systems. The following is a complete listing of AFSCs for the Manpower Career Field.

MANPOWER (3U)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
3U011 Manpower and Quality Management	3U031 Manpower and Quality Management		3U071 Manpower and Quality Management	3U091 Manpower and Quality Management	3U000 Manpower and Quality Management

CEM Code 3U000
AFSC 3U091, Superintendent

Craftsman AFSC 3U071
Journeyman AFSC 3U031
Helper AFSC 3U011

MANPOWER AND QUALITY MANAGEMENT
(Changed 30 Apr 97)

1. Specialty Summary. Manages manpower and quality (MQ) management functions including process reengineering and continuous improvement initiatives; Air Force organizational and process standards; productivity programs; A-76 commercial activities and outsourcing and privatization studies; management consulting services; and special process studies. Promotes a Quality Air Force (QAF) environment. Manages manpower data systems, military grades, and peacetime and wartime manpower requirements and utilization; manpower resources; and organization structure. Supports operational planning and execution. Related DoD Occupational Subgroup: 500.

2. Duties and Responsibilities:
2.1. Develops and maintains Air Force organizational and process standards and determinants. Designs methods and tailors consultation to improve organizational performance. Plans, advises, and facilitates organizational and functional process improvement including strategic planning, benchmarking, process mapping, work measurement, modern business management practices, metrics development for manpower requirements, performance evaluation, and manpower budget estimates. Directs and conducts the unit self assessment (USA) program, QAF awards program, just-in-time training, and surveys. Plans, organizes, and facilitates integrated process teams to develop strategies that address output, processes, performance measurement, and organizational design. Uses industrial engineering and computer techniques to facilitate work measurement and process improvement. Assists organizations participating in, and benefiting from, Air Force productivity programs. Administers suggestion and productivity enhancing capital investments programs. Plans, organizes, and directs MQ activities, including operations research, systems and procedures analysis, workload essentiality, work distribution and work flow, skill mix, work methods and simplification, layout analysis, and work measurement. Manages and conducts A-76 commercial activities and outsourcing and privatization studies including development of performance work statements, most efficient organizations, and cost comparisons. Coordinates with staff activities and assists management with study implementation. Establishes and maintains manpower readiness and force management.
2.2. Applies organizational and process standards, and revises manpower documents. Performs manpower wartime support for operational planning and execution. Participates in mobility planning and the manpower and personnel readiness team or center. Maintains manpower portion of the wartime computer system. Provides operational, contingency, and exercise planning and support. Participates in force sizing exercise and base level assessment that define in-place and deployment requirements. Conducts operational theater and overseas manpower requirements reviews. Correlates status of resources and training system data to unit manpower data. Provides recommendation on resource augmentation duty requirements identification. Evaluates and approves unit type code changes.
2.3. Designs, operates, and maintains manpower data systems at base major command (MAJCOM), or Headquarters USAF. Develops and prepares manpower documents. Maintains position mix among military, civilian, and contract personnel to ensure mission accomplishment and most efficient use of resources. Allocates military grades according to directives. Prepares and maintains manpower reports. Reviews support agreements.
2.4. Provides system focus. Facilitates in developing short-term and long-term goals and strategies relating to systems performance measures. Assists in developing organizational action plans, systems processes, and human resource systems. Measures and analyzes organizational systems performance including data collection and analysis, metric development, system effectiveness surveys, and forecasting system performance. Assists organizations to develop and internalize quality principles and use of management tools through consultation process and training services. Designs systems with focus on results, and system effectiveness and efficiency.
2.5. Performs organizational analysis and develops organizational change requests. Studies organizations' missions and workloads. Evaluates organization structures for effectiveness and efficiency. Prepares organization and functional charts. Prepares organization orders.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: Air Force MQ policies, methods, and procedures; organizational development consultation and facilitation, strategic planning, benchmarking, productivity enhancement and survey techniques, process improvement, performance measures and metric development, and activity based cost analysis; principles of industrial engineering techniques and procedures; officer and airman classification procedures; manpower allocation processes; manpower readiness and force management; automated data processing system operations and utilization; and organization structures, missions, and analysis.

3.2. Education. For entry into this specialty, completion of high school or general education development equivalency, with courses in mathematics including algebra or demonstrated algebra proficiency (proficiency in algebra must be current), is mandatory.
3.3. Training. For award of AFSC 3U031, completion of the basic MQ management course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3U071. Qualification in and possession of AFSC 3U031. Also, experience performing or supervising functions such as surveying and evaluating operational methods and procedures; facilitating and consulting organizational development and system process improvement studies; strategic planning; measuring, analyzing, and reengineering process improvement and system performance; activity based cost analysis; developing organizational and process standards; determining manpower requirements; accomplishing contingency force management; or analyzing organizational structures.
3.4.2. 3U091. Qualification in and possession of AFSC 3U071. Also, experience managing functions such as management engineering productivity and organizational development studies; alignment of MAJCOM systems with Air Force strategic plan; QAF system focus; strategic planning; development and implementation of metrics systems; development and implementation of performance measures; determining manpower requirements; or organizing and implementing force management structures during contingencies.
3.5. Other. For entry into this specialty, prior qualification in any AFSC at the 5-skill level or higher (3-skill level if no 5-skill level exists) is mandatory
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Attachment 31

VISUAL INFORMATION CAREER FIELD (3V)

INTRODUCTION

The Visual Information Career Field encompasses all service, production-documentation, and photoprocessing functions associated with visual information library, presentations, editorial, graphics, conventional and technical still photography, optical instrumentation, motion picture photography, television, and sound recording. Included are armament recording and other nonreconnaissance airborne image acquisition functions and base, dedicated mission, or reconnaissance photo-processing.

Excluded from this career field are photointerpretation and depot or field maintenance or visual information equipment functions that have been incorporated into Intelligence and Imagery Equipment Maintenance specialties. The following is a complete listing of AFSCs for Visual Information Career Field.

VISUAL INFORMATION (3V)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
3V011 Visual Information	3V031 Visual Information	3V051 Visual Information	3V071 Visual Information	3V090 Visual Information Services	3V000 Visual Information
3V012 Still Photographic	3V032 Still Photographic	3V052 Still Photographic	3V072 Still Photographic		
3V013 Visual Information Production - Documentation	3V033 Visual Information Production - Documentation	3V053 Visual Information Production - Documentation	3V073 Visual Information Production - Documentation		

CEM Code 3V000 **Superintendent AFSC 3V090**

VISUAL INFORMATION SERVICES
(Changed 30 Apr 96)

1. Specialty Summary. Manages and directs visual information, graphics, videography, still media, and production activities. Performs advisory, inspection, and staff functions involved with effective management, control, and use of visual information resources and services. Related DoD Occupational Subgroup: 400.

2. Duties and Responsibilities:
2.1. Plans and organizes visual information, imagery production, and quality assurance activities. Regulates structure, responsibilities, and resources. Analyzes and prepares production and quality assurance reports and studies.
2.2. Directs visual information, production imagery, and quality assurance activities. Assigns projects, controls performance, and ensures compliance with established policies, directives, and practices.
2.3. Inspects and evaluates visual information, imagery production, and quality assurance activities. Conducts inspections, identifies discrepancies, and recommends corrective action. Serves on inspection teams. Contributes to or serves on committees and boards set up to review and refine visual information, imagery production, and quality assurance applications and technology. Evaluates performance in relation to established requirements, directives, policies, and standards.
2.4. Provides technical visual information, imagery production, and quality assurance support. Resolves technical and administrative problems. Advises on maintenance status, equipment adequacy, personnel training, and operating efficiency.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: visual information media, production and documentation, graphics, still photographic, electronic imaging, imagery production, and quality assurance; communicative processes; and visual information management and quality assurance.
3.2. Education. Not used.
3.3. Training. Not used.
3.4. Experience. For award of AFSC 3V090, qualification in and possession of AFSC 3V071/72 or 73 is mandatory. Also, experience is mandatory directing visual information services such as visual information media, graphics, or medical illustration.
3.5. Other. For award and retention of AFSC 3V090/00, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program,* is mandatory.

AFSC 3V071, Craftsman **Apprentice AFSC 3V031**
AFSC 3V051, Journeyman **Helper AFSC 3V011**

VISUAL INFORMATION
(Changed 31 Oct 95)

1. Specialty Summary. Prepares art work, sketches, charts, and layouts for publications, presentations, displays, training, visual information production, and medical requirements. Operates visual information equipment; assists in preparing and using visual information aids and audio or video recordings. Related DoD Occupational Subgroup: 414.

2. Duties and Responsibilities:
2.1. Plans and prepares graphic images, special displays, and exhibits. Develops graphic products for direct viewing, printing, and reproduction; photography and projection; and televised presentation. Prepares sequential art work for use in series or to achieve cinemagraphic animation and special effects. Compiles and depicts data using various media, drawing instruments, and electronic equipment. Employs visual elements and principles of composition including style, balance, contrast, tone, color, dominance, and subordinance.
2.2. Operates special graphics equipment including graphic imaging systems, copy cameras, and serigraphic, printing, duplicating and processing equipment.
2.3. Operates and maintains presentations equipment. Sets up, positions, synchronizes, and operates various types of cameras, projectors, video and audio recorder-reproducers and monitors, video teleconference, digital interface, computers, and multimedia equipment. Selects lenses, screens, or television monitors according to viewing distance, medium type, ambient light, and audience size. Positions microphones, records proceedings, and arranges viewing or conference areas. Directs on-line modifications of visual information products during presentations and conferences.
2.4. Prepares medical illustrations. Prepares anatomical and pathological sketches or drawings. Collaborates with physicians on specific cases to ensure optimum illustrative results. Prepares accurate and realistic moulages.
2.5. Designs, integrates, and supervises presentation facilities and systems. Prepares facility layouts, electrical cabling schematics, equipment switching procedures, and links acoustical equipment with projection systems for classrooms, conference rooms, theaters, and teleconferencing facilities.
2.6. Supervises or performs visual information functions. Administers, monitors, and evaluates operating expenditures, and prepares future operating budget estimates. Ensures proper disposition of visual information record material. Observes copyright and reproduction restrictions. Conducts customer relations programs. Manages visual information hazard communication program.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: graphic arts and media; perspective, layout, balance, and contrast; color science, mixing, and application; standard drawing practices and instruments; finished art work and chart construction techniques; visual information media equipment and uses; presentation techniques; and operation and routine maintenance of equipment.
3.2. Education. For entry into this specialty, completion of high school with courses in commercial art, graphics, computer graphics, visual information communication media, drafting, or computer science is desirable.
3.3. Training. For award of AFSC 3V031, completion of a basic graphics course is mandatory.
3.4. Experience. The following experience is mandatory for award of AFSC indicated:
3.4.1. 3V051. Qualification in and possession of AFSC 3V031. Also, experience in visual information media support, and functions such as visual information products, or presentation services, and depicting ideas by using various graphics media and techniques.
3.4.2. 3V071. Qualification in and possession of AFSC 3V051. Also, experience performing or supervising functions such as illustrating ideas in sketches, posters, diagrams, or cartoons; or providing and directing presentation services.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFMAN 48-123, *Medical Examination and Standards*.
3.5.2. For award and retention of AFSCs 3V031/51 and 71, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

AFSC 3V072, Craftsman **Apprentice AFSC 3V032**
AFSC 3V052, Journeyman **Helper AFSC 3V012**

STILL PHOTOGRAPHIC
(Changed 30 Apr 96)

1. Specialty Summary. Accomplishes, processes, or supervises still, continuous, and computer generated imagery. Supports base-level, technical, contingency, reconnaissance, aerial mapping, special mission production, or combat requirements. Performs imagery tests and analysis, and certifies, monitors, and regulates imaging equipment. Captures, stores, enhances, crops, prints, or transmits images via satellite, telephone, or secure transmission systems. Related DoD Occupational Subgroup: 400.

2. Duties and Responsibilities:
2.1. Prepares photographic assignments. Acquires imagery in controlled, uncontrolled, and combat environments. Applies principles of composition. Conceives, visualizes, and produces images. Accomplishes combat documentation, investigative, record, informational, and other imagery. Obtains data and writes captions and cover stories. Selects and crops pictures for layouts and picture stories. Coordinates with pilots and aircrew on mission requirements for proper aircraft positioning. Sets up and operates stabilized camera mounts and ancillary lighting systems on aircraft.
2.2. Accomplishes photographic imaging. Coordinates with customers. Performs photographic imaging acquisition and processing of reversal, original negative, master negative, duplicate negative, digital photography, and prints. Selects, inspects, and tests camera, film, and photographic processing systems. Determines and uses cameras, films, filters, lighting, and accessory equipment. Operates, monitors, and adjusts photographic processors to ensure processing parameters are maintained. Evaluates processed imagery for physical or chemical defects, and takes corrective actions.
2.3. Operates or supervises operation of image acquisition equipment. Obtains optimum exposures using various meters, electronic flash, and exposure control methods. Uses light intensifier tubes (night vision). Operates portable satellite systems, imaging computers, and modems to transmit, receive, or store images.
2.4. Performs copy and duplication functions. Copies flat art, prints, slides, and computer generated products. Makes duplicate negatives, slides, internegatives, and positives. Uses specialized lighting and filters to control color balance.
2.5. Processes or supervises process of black and white, and color imagery. Inspects sensitized materials for physical defects; processes negative, internegative, positive, and reversal film. Monitors and adjusts processors to maintain processing parameters. Edits materials, attaches leaders, includes annotations, and titles film. Monitors photographic materials through continuous processors for proper tracking, speed, and tension. Loads and downloads materials without interrupting processing. Detects and corrects machine malfunctions. Conducts sensitometric and densitometric measurements and analyses. Constructs, interprets, and determines effects of exposure and development on emulsion density and contrast. Computes film speed, gradient exposure, and color balance.
2.6. Mixes, analyzes, and controls chemical processes. Mixes photographic processing chemicals. Safeguards against toxic, caustic, and explosive chemical hazards, or improper disposal of by-products. Measures and controls potential for (pH), specific gravity, concentration, and silver content. Calculates residual thiosulfate content of processed film and paper. Certifies photographic solutions for use, and calculates replenisher formulas and rates.
2.7. Operates or supervises operation of imagery print production equipment, including projection, optical, automated, and computer controlled printers. Determines materials, printing methods, and exposure requirements. Ensures printers are set to obtain optimum image size, sharpness, diametrical stability, correction, or rectification, density, contrast, color balance, and color saturation. Selects paper grades or types, and individual filters or filter combinations to control contrast or color balance. Exercises print control techniques using conventional or electronic means. Performs operator preventive maintenance on imagery equipment.
2.8. Performs quality assurance. Uses statistical quality assurance methods to establish and maintain imagery quality. Employs, computes, and analyzes development effects on density and contrast. Maintains process control charts to statistically evaluate data and determine causes of process variations. Ensures accuracy of automated processors.
2.9. Performs medical image recording functions. Coordinates with medical staff to perform clinical and surgical micro and macro photography using specialized photographic cameras and lighting equipment.
2.10. Supervises or performs photographic imaging functions. Observes copyright and reproduction restrictions. Catalogs, files, and disposes of photographic products. Supervises or performs preventive maintenance, and periodic photographic imagery calibration. Conducts progressive customer relations programs to make sure visual information products meet user needs. Manages or executes the visual information hazard communication program, unit silver recovery program, and environmental health and safety programs. Assures products comply with copyright and reproduction restrictions.
3. Specialty Qualifications:

3.1. Knowledge. Knowledge is mandatory of: photographic esthetics; theory, technology, camera operation, and imagery production systems; photographic laboratory and related equipment; characteristics of sensitized materials and chemistry; imagery processing and reproduction cycle; color timing; color correction; care, storage, and evaluation of sensitized materials; mathematics; statistics; sensitometry and densitometry; exposure and processing effects; imagery evaluation; and effects of graininess, granularity, acuity, and resolution.
3.2. Education. For entry into this specialty, completion of high school with courses in photography and chemistry, computer science, and mathematics is desirable.
3.3. Training. For award of AFSC 3V032, completion of a basic photography course is mandatory:
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3V052. Qualification in and possession of AFSC 3V032. Also, experience in functions such as operating imagery equipment, process control, or image evaluation.
3.4.2. 3V072. Qualification in and possession of AFSC 3V052. Also, experience performing and supervising functions involved in coordinating and accomplishing still photography and still photographic processing, printing, and finishing.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For award and retention of AFSCs 3V032/52/72, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

AFSC 3V073, Craftsman **Apprentice AFSC 3V033**
AFSC 3V053, Journeyman **Helper AFSC 3V013**

VISUAL INFORMATION PRODUCTION-DOCUMENTATION
(Changed 31 Oct 95)

1. Specialty Summary. Performs or supervises motion media activities. Uses motion media systems to provide aerial or ground visual information production or documentation support to Air Force educational, training, operational, or corporate communication requirements. Performs related editorial functions. Related DoD Occupational Subgroup: 400.

2. Duties and Responsibilities:
2.1. Supervises or accomplishes aerial or ground camera assignments. Determines equipment requirements, researches subject matter, and establishes shooting outline. Effects necessary coordination and ensures equipment is in proper operating condition. Operates camera, lighting, and related equipment. Determines optimum camera placement and settings. On aerial assignments, coordinates with pilot to ensure proper aircraft positioning and maneuvering to obtain desired results. Acquires data for captions, background material, cover stories, and logs. Performs operator maintenance on equipment. Determines most appropriate recording methods. Maintains continuity, orientation, and screen direction. Uses recording techniques compatible with editing. Reviews plans or scripts to determine resources requirements. Determines camera angles, lighting, and special effects. Ensures color compatibility between subject matter and backgrounds. Determines proper lighting and camera settings to ensure color match of related scenes shot at different locations. Matches interior and exterior scenes. Assists in selecting shooting locations. Ensures proper slating and identification.
2.2. Performs production related functions. Assists producers, directors, and writers. Coordinates with requesters to define subject matter and treatment, and assists with script preparation. Prepares and arranges studio sets and related scenery or props. Directs rehearsal and recording activity; evaluates production treatment for suitability; and determines selection, timing, and sequencing of material for electronic editing or post production assembly. Operates ancillary television production equipment such as character generators and film chains.
2.3. Acts as technical director or switcher. Integrates various television inputs. Operates switcher-fader, special effects, chroma-key, and remote controls. Sets up and accomplishes switching and special effects on cue. Ensures availability and technical adequacy of all inputs. Performs operational checks to insure functional readiness of equipment prior to recording.
2.4. Acts as floor manager. Arranges and controls illumination for proper coverage, intensity, and color balance. Supervises construction, handling, and storing of studio equipment or props. Relays cues and signals, and assists production director.
2.5. Functions as video camera operator. Ensures video coverage of staged or spontaneous events. Assists video controller with camera setup; prepares and consults shot list; and provides camera coverage during rehearsals and recording sessions. Proofreads and corrects teleprompter scripts prior to production. Instructs talent in effective techniques or prompter use.
2.6. Acts as prompter operator. Loads, unloads, and operates prompters.
2.7. Performs visual information editorial functions. Reviews and edits visual information materials. Identifies and reduces material to individual scenes or sequences, and assembles in proper order. Edits, assembles, and synchronizes recorded sound with imagery. Integrates special effects and prepares cue sheets.
2.8. Accomplishes audio recording or sound distribution. Directs or produces original recordings of music, sound effects, dialogue, or narration. Transfers or duplicates optical or magnetic audio tracks. Selects and cues audio source material while operating recorders, reproducers, and projectors in interlock. Electronically combines and balances multiple sound inputs while operating mixing console to create optimum composite audio programs.
2.9. Performs optical instrumentation. Supports scientific analysis, test documentation, and aerial photographic requirements with motion media systems. Consults with and assists engineers and scientific advisers on all phases of optical instrumentation. Determines techniques to be used employing normal-speed, high-speed, or ultra-speed metric and space positioning photography.
2.10. Supervises or performs visual information functions. Observes copyright and reproduction restrictions. Ensures proper disposition of visual information record material. Ensures periodic equipment calibration. Supervises or executes and maintains customer relations programs and visual information hazard communication program.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: videography; photographic theory; lighting techniques; optics; light theory; filters; editorial and sound functions; written and visual communications; and television production processes and equipment, such as camera operation, video switching and effects, video record and playback equipment, film chain operation, floor direction, set design, construction, and television lighting.
3.2. Education. For entry into this specialty, completion of high school or general education development equivalency is mandatory. Also, courses in drama, television, speech, photography, general science, and communicative arts are desirable.

3.3. Training. For award of AFSC 3V033, completion of a basic visual information production-documentation course is mandatory.

3.4. Experience. The following experience is mandatory for award of the AFSC indicated.

3.4.1. 3V053. Qualification in and possession of AFSC 3V033. Also, experience in functions such as motion media, production, television, or technical videography, or editorial and sound activities.

3.4.2. 3V073. Qualification in and possession of AFSC 3V053. Also, experience performing or supervising functions such as motion media, production, television, or technical videography, editorial, or sound activities.

3.5. Other. The following are mandatory as indicated:

3.5.1. For entry into this specialty, normal color vision as defined in AFMAN 48-123, *Medical Examination and Standards*.

3.5.2. For award and retention of AFSCs 3V033/53/73, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

Attachment 32

MEDICAL CAREER FIELD (4X EXCEPT 4Y)

INTRODUCTION

The Medical Career Field encompasses functions involved in operating both fixed and tactical medical facilities and subprofessionally caring for and treating authorized personnel. This career field includes aeromedical activities, aerospace physiology, specialized medical services including ophthalmology, otorhinolaryngology, orthopedics, urology, allergy and immunology, optometry, nuclear medicine and cardiopulmonary techniques, electroencephalographic studies, physical therapy, occupational therapy, orthotics, operating room, mental health services, radiology, medical laboratory, histopathology, cytotechnology, pharmacy, diet therapy, medical administration, medical materiel, bioenvironmental engineering, and environmental medicine, including laboratory animal techniques and medical equipment.

Excluded from this career field are dental and rescue and survival functions. These functions are included in the Dental Career Field and Protection Career Field.

All personnel of the USAF Medical Service must have knowledge of and be proficient in military sanitation and first aid procedures, to include shock management; effective respiration maintenance (mouth-to-mouth resuscitation with or without adjunct); hemorrhage control; emergency wound treatment; management of fractures, burns, and injuries from chemical agents; hand and litter carrier methods; and loading and unloading vehicles used for patient transportation.

All personnel of the USAF Medical Service must have knowledge of and be proficient in the operation and first echelon maintenance of all equipment used by the respective Air Force specialty, and must be familiar with improvisation and conversion methods of fixed types of medical equipment for tactical use. The following is a complete listing of AFSCs for the Medical Career Field.

MEDICAL (4X) (EXCEPT 4Y)											
Input or Helper Level		Apprentice or Semiskilled Level		Journeyman or Skilled Level		Craftsman or Advanced Level		Superintendent Level		Chief Enlisted Manager Level	
4A011	Health Services Management	4A031	Health Services Management	4A051	Health Services Management	4A071	Health Services Management	4A091	Health Services Management	4A000	Health Services Management
4A111	Medical Materiel	4A131	Medical Materiel	4A151	Medical Materiel	4A171	Medical Materiel	4A191	Medical Materiel	4A100	Medical Materiel
4A211	Biomedical Equip	4A231	Biomedical Equip	4A251	Biomedical Equip	4A271	Biomedical Equip	4A291	Biomedical Equip	4A200	Biomedical Equip
4B011	Bioenviron-mental Eng	4B031	Bioenviron-mental Eng	4B051	Bioenviron-mental Eng	4B071	Bioenviron-mental Eng	4B091	Bioenviron-mental Eng	4B000	Bioenviron-mental Eng
4C011	Mental Health Service	4C031	Mental Health Service	4C051	Mental Health Service	4C071	Mental Health Service	4C091	Mental Health Service	4C000	Mental Health Service
4D011	Diet Therapy	4D031	Diet Therapy	4D051	Diet Therapy	4D071	Diet Therapy	4D091	Diet Therapy	4D000	Diet Therapy
4E011	Public Health	4E031	Public Health	4E051	Public Health	4E071	Public Health	4E091	Public Health	4E000	Public Health
4F011	Aeromedical	4F031	Aeromedical	4F051	Aeromedical	4F071	Aeromedical	4F091	Aeromedical	4F000	Aeromedical
4H011	Cardiopul-monary Lab	4H031	Cardiopul-monary Lab	4H051	Cardiopul-monary Lab	4H071	Cardiopul-monary Lab	4H091	Cardiopul-monary Lab	4H000	Cardiopulmonary Lab
4J011	Occ Therapy	4J031	Occ Therapy	4J051	Occ Therapy	4J071	Occ Therapy	4J091	Occ Therapy	4J000	Biomedical
4J012	Physical Therapy	4J032	Physical Therapy	4J052	Physical Therapy	4J072	Physical Therapy	4J092	Physical Therapy		Therapy
4M011	Aerosp Physiol	4M031	Aerosp Physiol	4M051	Aerosp Physiol	4M071	Aerosp Physiol	4M091	Aerosp Physiolo	4M000	Aerosp Physiol
4N011	Medical Svc	4N031	Medical Svc	4N051	Medical Svc	4N071	Medical Svc	4N091	Medical Svc	4N000	Medical Svc
A	Allergy/-Immun	A	Allergy/-Immun	A	Allergy/-Immun						
B	Neurology	B	Neurology	B	Neurology						
4N111	Surgical Svc	4N131	Surgical Svc	4N151	Surgical Svc	4N171	Surgical Svc	4N191	Surgical Svc		
B	Urology	B	Urology	B	Urology	B	Urology				

MEDICAL (4X) (EXCEPT 4Y)											
Input or Helper Level		**Apprentice or Semiskilled Level**		**Journeyman or Skilled Level**		**Craftsman or Advanced Level**		**Superintendent Level**		**Chief Enlisted Manager Level**	
C	Orthopedics	C	Orthopedics	C	Orthopedics	C	Orthopedics				
D	Otorhinolarn-gology	D	Otorhinolarn-gology	D	Otorhinolarn-gology	D	Otorhinolarn-gology				
4P011	Pharmacy	4P031	Pharmacy	4P051	Pharmacy	4P071	Pharmacy	4P091	Pharmacy	4P000	Pharmacy
4R011	Diagnostic Imaging	4R031	Diagnostic Imaging	4R051	Diagnostic Imaging	4R071	Diagnostic Imaging	4R090	Diagnostic Imaging	4R000	Diagnostic Imaging
A	Nuclear Medicine	A	Nuclear Medicine	A	Nuclear Medicine	A	Nuclear Medicine				
B	Ultrasound	B	Ultrasound	B	Ultrasound	B	Ultrasound				
C	Magnetic Resonance	C	Magnetic Resonance	C	Magnetic Resonance	C	Magnetic Resonance				
4T011	Medical Lab	4T031	Medical Lab	4T051	Medical Lab	4T071	Medical Lab	4T090	Medical Lab	4T000	Medical Lab
4T012	Histopatho-logy	4T032	Histopatho-logy	4T052	Histopatho-logy	4T072	Histopatho-logy				
4T013	Cytotech-nology	4T033	Cytotech-nology	4T053	Cytotech-nology	4T073	Cytotech-nology				
4U011	Orthotic	4U031	Orthotic	4U051	Orthotic	4U071	Orthotic	4U091	Orthotic	4U000	Orthotic
4V011	Optometry	4V031	Optometry	4V051	Optometry	4V071	Optometry	4V090	Optometry	4V000	Optometry
A	Ophthal-mology	A	Ophthal-mology	A	Ophthal-mology	A	Ophthal-mology				

CEM Code 4A000
AFSC 4A091, Superintendent
AFSC 4A071, Craftsman
Journeyman AFSC 4A051
Apprentice AFSC 4A031
Helper AFSC 4A011

HEALTH SERVICES MANAGEMENT
(Changed 30 Apr 98)

1. Specialty Summary. Manages health services activities. Plans, develops, manages, and performs health services activities. Related DoD Occupational Subgroup: 340.

2. Duties and Responsibilities:
2.1. Performs and directs beneficiary service functions. Prepares health record copies and abstracts. Prepares, files, safeguards, transfers, and retires health records. Maintains patient locator and suspense files. Prepares, codes, and transmits clinical record cover sheets. Schedules beneficiary appointments. Transcribes daily information onto charts. Transcribes physicians' orders, and prepares requests for diagnostic tests, consultations, and referrals. Performs functions to admit, discharge, and transfer patients. Compiles information and prepares reports, graphs, and charts on bed occupancy, staffing, dental health, subsistence accounting, medical care from civilian sources, and professional activities. Screens medical records to gather data for medical audits. Prepares patient-related correspondence and special orders for patient assignment, reassignment, or aeromedical evacuation. Performs procedures for network referrals. Provides claims assistance and counseling to beneficiaries. Performs and prepares reports on market analysis and business-case analysis.
2.2. Performs and manages health services management functions. Interprets communications, directives, and publications. Ensures compliance with directives. Maintains special programs. Develops strategic resourcing plans. Coordinates with other activities, agencies, and organizations. Conducts inspections, interprets inspection findings and recommends corrective action. Evaluates work performed, training effectiveness, and overall efficiency.
2.3. Performs and manages resource management functions. Prepares and processes payment vouchers for services to beneficiaries. Prepares financial statements and subsistence stock records. Coordinates third party collection activities and prepares necessary reports. Assists in manpower surveys and developing manpower standards. Identifies manpower standard exceptions and deviations. Analyzes workload and cost data to validate manpower requirements, and develops adjustments and projections to support clinical or mission changes. Collects, maintains, prepares, and analyzes medical expense and performance reporting systems data. Prepares budget estimates and financial plans. Monitors expenditures and obligations; analyzes financial reports and accounting and workload reporting procedures; conducts studies and internal audits.
2.4. Performs and manages medical information systems functions. Requests and documents technical assistance. Manages hardware and software activities. Monitors information technology security programs. Performs customer support activities. Manages information systems user training programs.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: general clerical procedures; medical terminology, regulations, and directives; medical ethics; health records administration; patient movement; office management methods; anatomy and physiology.
3.2. Education. For entry into this specialty, completion of high school or General Education Development equivalency with courses in biology, health, business administration, typing, and computers is desirable.
3.3. Training. For award of AFSC 4A031, completion of a basic health services management course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 4A051. Qualification in and possession of AFSC 4A031. Also, experience in one or more of the following functions: records management, admissions and dispositions, or patient movement
3.4.2. 4A071. Qualification in and possession of AFSC 4A051. Also, experience supervising a health services management function.
3.4.3. 4A091. Qualification in and possession of AFSC 4A071. Also, experience managing a health services management function and personnel.
3.5. Other. For award of AFSC 4A031, ability to keystroke at a minimum speed of 20 words per minute is mandatory.

CEM Code 4A100
AFSC 4A191, Superintendent
AFSC 4A171, Craftsman
Journeyman AFSC 4A151
Apprentice AFSC 4A131
Helper AFSC 4A111

MEDICAL MATERIEL

1. Specialty Summary. Performs and manages preparation and maintenance of manual and mechanized accountable medical materiel records, and requisitioning, receiving, storing, issuing, safeguarding and accounting for supplies and equipment. Processes and monitors requests for contracts. Implements and directs medical materiel activities for inventory control, accounting, financial planning, and management of supplies and equipment. Performs and monitors computer operations. Related DoD Occupational Subgroup: 341.

2. Duties and Responsibilities:
2.1. Performs and manages administrative functions. Requisitions, receives and maintains medical materiel publication files. Provides information to using activities on issues, schedules, and related matters.
2.2. Performs, organizes, and monitors medical materiel management functions. Prepares and validates computer input data to establish, revise, and maintain master records. Determines requirements for and maintains records on war reserve materiel and other special programs. Initiates and manages the requisitioning, receipt, storage, issue and turn in of medical materiel. Ensures proper supply flow under various issue methods. Establishes and monitors a quality control program. Ensures effective internal controls for processing property documents and maintaining accountable records. Determines and evaluates action taken to establish stock control levels and inventory control. Conducts inventories. Processes, maintains and monitors requests for services and rentals. Coordinates internal operations with the medical equipment maintenance activity. Monitors coordination of support by base activities.
2.3. Inspects, reviews and evaluates medical materiel support. Conducts periodic internal inspections of medical materiel for compliance with policies, procedures and directives. Analyzes reports and records and takes necessary corrective action. Ensures effective support is provided for all customers. Visits supported activities.
2.4. Performs medical materiel functions. Establishes and ensures timely and efficient management of excess materiel and equipment. Receives and inspects incoming supplies and equipment. Applies special handling procedures for controlled medical items, gases, precious metals, dangerous and hazardous materials and refrigerated or frozen materials. Provides and maintains medical kits and sets. Delivers supplies and equipment to supported activities.
2.5. Operates and supervises the base medical equipment management office and non-medical materiel support. Validates and coordinates equipment requests. Monitors expense and investment equipment fund programs. Ensures in-use equipment asset inventories are accomplished and necessary corrective actions and documentation is taken. Provides and monitors non-medical supply and equipment support.
2.6. Operates and supervises the operation of automated data processing equipment. Ensures system operations are according to standard system center documents. Performs and supervises periodic maintenance on computer systems. Ensures proper scheduling of all computer processing, and processes required programs.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: Air Force property and financial accounting base on automated data processing, logistics and related publications, medical materiel procedures, identity and general characteristics of medical materiel, and organization of medical materiel accounts.
3.2. Education. For entry into this specialty, completion of high school courses in management, basic electronic data processing, bookkeeping, accounting, and business administration is desirable.
3.3. Training. For award of AFSC 4A131, completion of a basic medical materiel course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 4A151. Qualification in and possession of AFSC 4A131.
3.4.2. 4A171. Qualification in and possession of AFSC 4A151.
3.4.3. 4A191. Qualification in and possession of AFSC 4A171. Also, experience managing all medical materiel functions.
3.5. Other. For entry into this specialty, qualification to operate government vehicles according to AFMAN 24-309, *Vehicle Operations*, is mandatory.

CEM Code 4A200
AFSC 4A291, Superintendent
AFSC 4A271, Craftsman
Journeyman AFSC 4A251
Apprentice AFSC 4A231
Helper AFSC 4A211

BIOMEDICAL EQUIPMENT

1. Specialty Summary. Installs, inspects, repairs, and modifies biomedical equipment and support systems. Performs pre-purchase evaluations of medical devices and advises on operational theory, underlying physiological principles, and safe clinical applications of biomedical equipment. Implements organizational maintenance support for all medical devices used within the medical treatment facility (MTF), medical research laboratories, air transportable hospitals and clinics, and contingency hospitals. Provides technical guidance and intermediate maintenance support on medical equipment systems when assigned to a regional Medical Equipment Repair Center (MERC). Directs the facility management program when assigned. Related DoD Occupational Subgroup: 326.

2. Duties and Responsibilities:

2.1. Assembles, installs, and inspects new biomedical equipment. Assembles equipment and conducts pre-operational tests to verify compliance with medical and technical standards, specifications, contracts, and regulatory guidance. Installs or coordinates the installation of medical equipment that requires interface with other devices or with the facility. Resolves installation and associated maintenance support problems. Performs formal acceptance testing of complex medical equipment and installations such as diagnostic radiology systems and physiological monitoring systems. Performs pre-procurement surveys, and provides technical advice regarding the purchase of new biomedical equipment systems and the required facility interface requirements.

2.2. Inspects, services, and modifies biomedical equipment and support systems. Inspects biomedical equipment systems to determine operational status and compliance with technical standards and specifications. Performs or supervises preventive maintenance tasks such as lubrication; mechanical adjustment; and replacement of filters, tubing, and other parts subject to deterioration. Evaluates user maintenance procedures and ensures safe medical equipment practices are exercised. Instructs and advises personnel in the care and safe, effective use of medical equipment. Calibrates medical equipment according to manufacturers' technical literature, pertinent federal regulations, national standards, state and local laws, and Air Force guidance. Applies electrical, electronic, optical, mechanical, pneumatic, hydraulic, and physiological principles to diagnose and locate system malfunctions. Uses test equipment, technical data, engineering drawings, schematics, and reference materials for troubleshooting and repair of medical equipment. Performs authorized modifications to biomedical equipment.

2.3. Performs safety inspections. Inspects and tests medical and patient-related non-medical equipment for compliance with current safety standards. Inspects and tests supporting utility systems and specialized environment control systems of the medical facility for compliance with electrical and patient safety codes and standards. Identifies deficient equipment, initiates corrective action, and informs personnel of possible safety hazards.

2.4. Performs maintenance management and administrative functions. Develops and directs methods and procedures to be used in the maintenance activity. Determines the type, extent, and feasibility of repairs; and implements repair or condemnation procedures. Performs tasks relating to collecting and recording historical maintenance data. Quality controls reports to ensure accuracy of bench stock balance records and historical maintenance records (HMRs). Revises preventive maintenance and calibration cycles based on Air Force regulations, manufacturers' literature, and local conditions. Administers the medical equipment warranty and guarantee program. Develops statements of work (SOWs) and manages the medical equipment contract maintenance program. Ensures availability and control of spare parts, test equipment, and tools.

2.5. Manages facility management programs. Senior technicians and superintendents may be assigned as facility managers. Manages safety, resource protection, security, energy conservation, fire protection, communications, housekeeping, and facility maintenance programs. Maintains liaison with base agencies such as civil engineering (CE), communications, and contracting to acquire services for operation and maintenance of the facility, the installed equipment, and utility systems. Coordinates construction, maintenance, and facility alteration projects. Performs quality assurance evaluations of work completed by base agencies and contractors. Supervises maintenance of hospital environment and housekeeping. Conducts periodic inspections of the MTF and evaluates issues relating to maintenance, safety, fire protection, and disaster planning to ensure compliance with National Fire Protection Association (NFPA) codes and Joint Commission on Accreditation of Healthcare Organizations (JCAHO) standards. Verifies reimbursements to CE and contractors, and accumulates cost data to support facility budget requests.

3. Specialty Qualification:

3.1. Knowledge. Knowledge is mandatory of: physiology; electrical, electronic, mechanical, optical, hydraulic, pneumatic, and radiation principles that apply to biomedical equipment systems; using and interpreting national safety and accrediting standards, blueprints, and Air Force publications; equipment systems application in medicine; and medical safety procedures.
3.2. Education. For entry into this specialty, completion of high school or general educational development equivalency with courses in algebra, trigonometry, mechanics, mechanical theory, general sciences, anatomy, or biology is desirable.
3.3. Training. For entry into this specialty, completion of a basic biomedical equipment maintenance course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 4A251. Qualification in and possession of AFSC 4A231. Also, experience in functions such as installing, inspecting, calibrating, modifying, and repairing biomedical equipment support systems.
3.4.2. 4A271. Qualification in and possession of AFSC 4A251. Also, experience supervising functions such as installing, calibrating, repairing, or modifying biomedical equipment systems.
3.4.3. 4A291. Qualification in and possession of AFSC 4A271. Also, experience managing functions such as installing, calibrating, repairing, or modifying biomedical equipment systems.
3.5. Other. The following are mandatory for entry into this specialty:
3.5.1. Normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. Minimum age 18 years.

CEM Code 4B000
AFSC 4B091, Superintendent
AFSC 4B071, Craftsman
Journeyman AFSC 4B051
Apprentice AFSC 4B031
Helper AFSC 4B011

BIOENVIRONMENTAL ENGINEERING

1. Specialty Summary. Performs and manages bioenvironmental engineering activities in the fields of industrial hygiene, occupational health, radiological health, and environmental protection to ensure healthful working conditions are maintained and that the environment is not adversely affected by Air Force operations. Supervises and performs bioenvironmental engineering medical readiness activities. Related DoD Occupational Subgroup: 322.

2. Duties and Responsibilities:

2.1. Evaluates and conducts bioenvironmental engineering programs. Prepares and reviews reports. Consults with supervisors for corrective steps to be taken where health violations or deficiencies exist. Ensures that programs are being carried out and that control measures are adequate. Conducts internal inspections to ensure coverage of activities assigned to bioenvironmental engineering. Provides guidance and supervision in selecting protective equipment, and monitors its use in the industrial environment.

2.2. Supervises and performs bioenvironmental engineering functions. Reviews plans, work orders, contracts, and specifications for compliance with environmental and occupational health directives. Serves as a member on committees for occupational health, environmental protection, and medical readiness matters. Reviews environmental assessments and statements. Evaluates drinking water quality, swimming pools, and public bathing areas. Evaluates domestic waste treatment and solid waste disposal systems and procedures. Identifies and evaluates potential pollution sources. Develops, implements, and conducts water pollution surveillance programs. Investigates chemical spills and other environmental releases, collects samples and coordinates necessary corrective actions with state, federal, and local officials. Reviews supply issue documents for hazardous and toxic substances, assigns issue exception codes, and monitors issue, use, and disposal of such materials. Performs source and ambient monitoring. Coordinates with civilian regulatory agencies on environmental monitoring matters. Conducts evaluations and reviews procedures for compliance with pollutant discharge limits. Supervises and performs surveys of industrial shops. Surveys workplace, collects employee data, determines workplace monitoring requirements based on the nature and condition of the work environment and agents present, and performs needed sampling. Collects industrial hygiene data on noise, ionizing and non-ionizing radiation, illumination, ventilation, air quality, ergonomics, and thermal stress to assess degree of hazard and worker exposure. Maintains and quality controls case files. Maintains and calibrates survey equipment.

2.3. Performs, plans and directs duties in bioenvironmental engineering medical readiness. Performs and directs surveys to detect and identify chemical, biological, and radiological contaminants. Provides technical assistance and guidance to base disaster preparedness personnel in detecting warfare agents. Advises on health hazards and protective measures for exposed populations and emergency response personnel. Advises on decontamination procedures for medical personnel, patients, equipment, and medical facilities. Provides training for medical personnel, advice and guidance for training non-medical personnel in the medical aspects of defense against nuclear, biological, and chemical agents.

2.4. Performs and directs radiological health functions. Develops and maintains an inventory of all radiation sources, both ionizing and non-ionizing, on the installation. Surveys facilities, equipment, materials, and operations for ionizing and non-ionizing radiation hazards and monitors radioactive waste disposal and shipment to ensure compliance with current environmental, safety, and health standards, and licensing or permit requirements. Investigates suspected overexposures. In the absence of the bioenvironmental engineer, may be appointed as radiation safety officer. Supervises and conducts the personnel dosimetry program. Assists base activities in implementing radiation protection programs and in correcting deficiencies.

3. Specialty Qualifications:

3.1. Knowledge. Knowledge is mandatory of: basic and applied mathematics, basic chemistry, physics and computer usage, industrial hygiene, community environmental surveillance, occupational health, radiological health, environmental protection, medical administration, and bioenvironmental engineering aspects of medical readiness.

3.2. Education. For entry into this specialty, completion of an Algebra I course in high school is mandatory. Completion of high school courses in Algebra II, physics, chemistry, biology, and English composition is desirable.

3.3. Training. For award of AFSC 4B031, completion of the basic bioenvironmental engineering specialist course is mandatory.

3.4. Experience. The following experience is mandatory for award of the AFSC indicated:

3.4.1. AFSC 4B051. Qualification in and possession of AFSC 4B031. Also, experience in conducting bioenvironmental engineering evaluations and surveys.
3.4.2. AFSC 4B071. Qualification in and possession of AFSC 4B051. Also, experience performing and supervising industrial hygiene, occupational health, environmental protection, medical readiness and radiological health surveys to include the preparation of all related correspondence, reports, and charts.
3.4.3. AFSC 4B091. Qualification in and possession of AFSC 4B071. Also, experience managing industrial hygiene, community environmental surveillance, and radiological health programs.
3.5. Other. The following are mandatory for entry into this specialty:
3.5.1. Normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. Qualification to operate government vehicles according to AFMAN 24-309, *Vehicle Operations*.
3.5.3. A minimum age of 18 years.

CEM Code, 4C000
AFSC 4C091, Superintendent
AFSC 4C071, Craftsman
Journeyman AFSC 4C051
Apprentice AFSC 4C031
Helper AFSC 4C011

MENTAL HEALTH SERVICE
(Changed 31 Oct 96)

1. Specialty Summary. Supports mental health services in psychiatry, psychology, social work, family advocacy, substance abuse prevention and rehabilitation, and mental health nursing programs. Manages mental health service resources and activities. Assists mental health professional staff with developing and implementing treatment plans. Performs specified mental health treatment. Reports and documents patient care. Related DoD Occupational Subgroup: 302.

2. Duties and Responsibilities:
2.1. Conducts or assists in treatment and rehabilitation of mental health patients. Performs basic assessment procedures including standardized psychological testing, clinical interviewing, mental status examinations, substance abuse evaluations, and psychological and nursing assessment. Assists in identifying mental health and nursing diagnoses, treatments, patient education, and disposition planning. Participates in patient care conferences and substance abuse intervention. Observes, monitors, records, and reports patient's progress. Conducts or assists in conducting group and individual counseling, therapeutic community, and other related milieu activities. Institutes precautionary measures to prevent patient injury, suicide, or elopement. Provides mental health and substance abuse prevention education. Performs general and special clinical procedures. Assists patients with nutritional, hygiene, and comfort measures. Obtains and records vital signs. Performs chaperone and escort duties. Maintains therapeutic relationships. Performs aeromedical evacuation procedures. Supports the Air Force drug testing program.
2.2. Plans and supervises mental health service activities. Coordinates with other agencies regarding specified care, treatment, prevention, rehabilitation, and administrative functions. Contacts military or community agencies to obtain collateral information. Explains and interprets mental health services to patients or others. Assists in or arranges patient referral to public, private, and military community agencies.
2.3. Manages enlisted resources. Establishes priorities based on knowledge of interchangeable skills among assigned enlisted personnel. Manages preparation and maintenance of records and reports pertaining to specialty services. Reviews procedures and requirements within specialty services to preclude duplication and free personnel for more direct service work with patients. Establishes, maintains, and evacuates specific mental health, family advocacy, and substance abuse training programs. Conducts in-service training. Schedules recurring training and conducts task evaluations.
2.4 Performs combat and disaster casualty care procedures. Supervises and assists with care of individuals experiencing acute and post-traumatic stress reactions.
2.5. Supervises and performs administrative duties. Prepares, maintains, and disposes of mental health, family advocacy, and substance abuse treatment records. Receives patients and schedules appointment. Evaluates mental health service activities. Collects and updates administrative and statistical data. Conducts unit self-assessments. Compiles and prepares medical and administrative reports. Briefs patients on safety and evacuation procedures.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: psychiatry, psychology, social work, family advocacy procedures, and nursing principles; confidentiality and legal aspects of patient care; understanding of medical, nursing, and mental health terminology; psychopathology; adjustment mechanisms; substance abuse pathology; combat and disaster casualty care management; communication process; specialized mental health and nursing treatment techniques; anatomy and physiology; deviant and unacceptable behavior; principles of interpersonal relationships; counseling and interviewing techniques; diagnostic nomenclature; psychopharmacology; administration and scoring of psychological tests; medical and mental health ethics; medical and clinical records administration; nursing theories; principles of milieu therapy; personnel, unit and clinic management; and budgeting and acquisition of supplies and equipment.
3.2. Education. For entry into this specialty, completion of high school is mandatory. Completion of college courses in psychology, social sciences, sociology, and marriage and family is desirable.
3.3. Training. For award of AFSC 4C031, completion of a basic mental health service course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated.
3.4.1. 4C051. Qualification in and possession of AFSC 4C031. Also, experience administering, scoring, and reporting psychological test results; interviewing patients to obtain personal history information; and assisting professional staff to carry out prescribed treatment.
3.4.2. 4C071. Qualification in and possession of AFSC 4C051. Also, experience performing or supervising psychological test administration and interviewing, assisting in patient treatment, or substance abuse prevention and counseling.
3.4.3. 4C091. Qualification in and possession of AFSC 4C071. Also, experience managing mental health service activities.

3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, ability to speak English distinctly.
3.5.2. For entry, award, and retention of these AFSCs, no record of emotional instability, personality disorder, or unresolved mental health problems.

CEM Code 4D000
AFSC 4D091, Superintendent
AFSC 4D071, Craftsman
Journeyman AFSC 4D051
Apprentice AFSC 4D031
Helper AFSC 4D011

DIET THERAPY

1. Specialty Summary. Performs duties in Nutritional Medicine Service to include procuring, storing, preparing, cooking, baking and serving regular and therapeutic diets and nourishment. Performs clinical dietetics tasks and procures equipment. Maintains established sanitation, safety, and security standards. Accomplishes supply and subsistence management control and other duties as assigned. When no dietitian is assigned, consults command dietitian. Related DoD Occupational Subgroup: 325.

2. Duties and Responsibilities:
2.1. Practices timely, quality fundamentals of food preparation for regular and therapeutic diets, tube feedings, therapeutic-in-flight and box lunches. Prepares and cooks food items included in regular and therapeutic diets to conform with menus, recipes and food production worksheets. Portions and selects nourishment for regular and therapeutic diets. Arranges and garnishes foods using available products and equipment. Assembles and disassembles patient trays on food carts in patient tray assembly area. Delivers and returns food carts from nursing units. Cleans and sanitizes food carts, work area, dining area and equipment. Disassembles and cleans patient tray assembly areas and dining hall serving lines. Standardizes recipes and tests new products. Establishes production controls and standards for quantity and quality of foods. Plans menus according to established patterns. Analyzes reports on baking and cooking activities. Provides field feeding, accountability, sanitation, and layout during disasters or contingencies.
2.2. Performs clinical dietetic tasks. Receives and processes diet orders, menus and other directives related to patient care. Assists in writing individual therapeutic diet menus according to established patterns and guidelines. Conducts dietary rounds to interview patients on regular and therapeutic diets to determine satisfaction and food preferences. Completes basic level nutritional assessments. Weighs patients on initial and follow-up visits, recording the information in the patients medical record. Obtains, evaluates and uses dietary history to plan nutritional care. Calculates simple, routine therapeutic diets. Supports community nutrition requirements.
2.3. Accomplishes supply and subsistence management control, and other administrative duties. Collects and turns in subsistence and surcharge monies. Completes menu tallies, patient tray service records and workload data. Assists in determining requirements, preparing requisitions and local purchase orders. Receives, verifies, stores and issues foods and supplies from the commissary and medical logistics. Draws supplies and subsistence. Establishes stock controls, periodic inventories and thawing procedures. Assists in implementing cost control procedures. Inspects and evaluates facility and equipment for proper maintenance, operation and use. Monitors quality, quantity, sanitation, safety and security standards. Practices Quality Management ensuring continuous quality improvements using metrics. Makes recommendations for corrective actions in effectiveness of the Nutritional Medicine Service operation. Directs, inspects and evaluates completed work of personnel. Establishes work schedules, work assignments, job descriptions and resolves technical difficulties. Formulates and follows standard operating instructions. Advises dietitian on equipment status, maintenance and adequacy; personnel training; and operational efficiency and economy. Provides input to the MTF budget. Coordinates nutritional medicine service activities with interrelated or using organizations.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: food preparation methods; standardized recipes; the metric system of weights and measures; food chemistry; medical and dietetic abbreviations and terminology relating to food preparation and clinical dietetics; operating special preparation feeding and service equipment; sanitation and aseptic techniques and standards; use of Materiel Safety Data Sheets; medical ethics; professional and patient relationships; psychology of serving patients; the digestive tract anatomy and physiology feeding in wartime or disaster contingencies; patient feeding in aeromedical evacuation; measures necessary to protect foodstuffs from contamination from radiological; chemical and biological agents; food purchasing, storage, preparing, service, merchandising, and managing Nutritional Medicine Service activities, menu planning, diet therapy, patient tray service and dining hall operations, baking, and cooking.
3.2. Education. For entry into this specialty, completion of high school is desirable with courses in mathematics, chemistry, biology, and food preparation.
3.3. Training:
3.3.1. For award of AFSC 4D031, completion of a basic food service course is desirable.
3.3.2. For award of AFSC 4D031, completion of a diet therapy course is mandatory.

3.4. Experience. The following experience is mandatory for award of AFSC indicated:

3.4.1. 4D051. Qualification in and possession of AFSC 4D031. Also, experience in menu, diet planning, preparing, cooking, and serving regular and therapeutic diets.
3.4.2. 4D071. Qualification in and possession of AFSC 4D051. Also, experience supervising nutritional medicine service activities, such as scheduling and food service accounting.
3.4.3. 4D091. Qualification in and possession of AFSC 4D071. Also, experience managing functions such as baking, cooking and servicing of foods.
3.5. Other. Not used.

CEM Code 4E000
AFSC 4E091, Superintendent
AFSC 4E071, Craftsman
Journeyman AFSC 4E051
Apprentice AFSC 4E031
Helper AFSC 4E011

PUBLIC HEALTH

1. Specialty Summary. Manages and performs military public health activities and programs. Included are food inspection; sanitation; entomology programs; vectorborne, communicable, and occupational disease prevention and control; public health medical readiness activities; and promoting and providing health education and training. Related DoD Occupational Subgroup: 322.

2. Duties and Responsibilities:

2.1. Conducts food inspection programs. Receipts for and inspects foods. Inspects sanitary condition of containers and vehicles. Ensures food origin and distribution is by approved sources. Inspects foods for wholesomeness and contract compliance. Recommends measures to prevent contamination and deterioration. Routinely inspects operational rations. Collects and ships food for laboratory analysis. Investigates customer complaints. Evaluates and completes inspection records.

2.2. Plans and conducts sanitation programs. Conducts sanitary evaluations of food, public facilities, and military and civilian contract aircraft. Determines compliance with sanitary standards and reports discrepancies. Provides food handler, disease outbreak, and community health education and training.

2.3. Organizes and assists in communicable disease prevention and control programs. Controls disease transmission through patient interviews, epidemiologic investigations, and patient education. Advises professionals on control measures. Monitors treatment and follow-up of communicable diseases. Updates and completes records and forms. Investigates disease outbreaks. Collects and compiles epidemiological data. Identifies and evaluates trends.

2.4. Organizes, directs, and assists in occupational health programs. Instructs supervisors and workers in personal hygiene, occupational hazards, hazard communications, and personal protective equipment. Monitors results of occupational health examinations to detect adverse trends. Helps investigate occupational illnesses. Aids in fetal protection program by interviewing supervisors and workers, recommending duty restrictions, and providing health promotion education and training. Advises providers on workplace hazards. Conducts occupational health shop visits. Manages occupational health examinations. Updates military public health input to industrial case files.

2.5. Plans and conducts medical entomology program. Evaluates risk of vectorborne disease. Monitors compliance and effectiveness of vector and pest management control programs. Recommends preventive and control measures. Provides education and training on prevention and control of vectorborne diseases.

2.6. Plans, organizes, and conducts public health medical readiness programs. Prepares and conducts medical intelligence briefings. Conducts programs to reduce health risk from communicable diseases, food, improper field hygiene and sanitation, and environmental exposures. Assists in decontamination procedures for patients and medical personnel, equipment, and facilities.

3. Specialty Qualifications:

3.1. Knowledge. Knowledge is mandatory of: basic biological and physical sciences; preventive medicine; fundamentals of microbiology, chemistry, anatomy, physiology, and pathology of the human body; medical entomology programs; food technology; food handler training; medical food inspection; laboratory procedures; sanitary evaluations; public facility sanitation; prevention and control of foodborne, waterborne, and vectorborne diseases; communicable disease prevention and control; epidemiology; occupational health; medical readiness; medical administration; and written and oral communication and instruction.

3.2. Education. For entry into this specialty, completion of high school courses in biology, chemistry, and general science is desirable.

3.3. Training. For award of AFSC 4E031, completion of a basic public health specialist course is mandatory.

3.4. Experience. The following experience is mandatory for award of the AFSC indicated:

3.4.1. 4E051. Qualification in and possession of AFSC 4E031. Also, experience in functions such as routine food inspection; sanitary evaluations; communicable disease control and disease intervention; occupational illness prevention; or medical readiness.

3.4.2. 4E071. Qualification in and possession of AFSC 4E051. Also, experience conducting military public health programs.

3.4.3. 4E091. Qualification in and possession of AFSC 4E071. Also, experience managing military public health activities.

3.5. Other. The following are mandatory for entry into this specialty:

3.5.1. Normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.

3.5.2. Qualification to operate government vehicles according to AFMAN 24-309, *Vehicle Operations*.

CEM Code 4F000
AFSC 4F091, Superintendent
AFSC 4F071, Craftsman
Journeyman AFSC 4F051
Apprentice AFSC 4F031
Helper AFSC 4F011

AEROMEDICAL

1. Specialty Summary. Assists aerospace medicine physician staff to implement aerospace medicine program with primary emphasis on routine medical care and treatment of flying and special operational duty personnel, and their dependents. Applies medical standards for initial and continued qualification of all Air Force members. Provides bare-base medical support for operational flying squadrons. Related DoD Occupational Subgroup: 305.

2. Duties and Responsibilities. Provides clinical medicine and medical administrative support to the aerospace medicine physician in routine care of rated and nonrated aircrew, special operational duty personnel, and their dependents. Performs paraprofessional portions of physical examinations. Assists physician staff to interpret and apply medical standards to determine medical qualifications for occupational duty, worldwide duty, mobility status, flying status, and special duty. Serves as member of primary emergency medical response to all inflight emergencies and as emergency medical response to potential mass casualty scenarios for on- and off-base incidents involving military aircraft. Assists flight surgeon with aircraft mishap and physiological incident response, investigation, and reporting. Supports flight surgeon to develop flying safety and deployment briefings. Provides conduit for technical information and program coordination between chief of aerospace medicine and major sections of aerospace medicine program. Deploys as a squadron medical element with operational flying squadrons and provides forward area medical care in barebase environments. Trains other medical specialties on medical and administrative aspects of aerospace medicine program. Augments search and rescue flying squadrons.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: anatomy, physiology, preventive medicine, and flight physiology fundamentals; emergency medical care; medical and surgical treatment procedures; aeromedical protective equipment; physical examination techniques; medical ethics; medical terminology; emergency communications; medical materiel; patient care and treatment procedures; rescue and survival techniques; administration and supply procedures; medical service organization and function; and personnel management and administration.
3.2. Education. For entry into this specialty, completion of high school courses in general science, biology, and chemistry is desirable.
3.3. Training. For award of AFSC 4F031, completion a basic aeromedical course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 4F051. Qualification in and possession of AFSC 4F031. Also, experience in functions such as assisting flight surgeon with medically caring for, treating, and examining flying and special operational duty personnel.
3.4.2. 4F071. Qualification in and possession of AFSC 4F051. Also, experience performing or supervising functions such as conducting portions of physical examinations, assisting in medical treatment of patients, and instructing in aeromedical subjects.
3.4.3. 4F091. Qualification in and possession of AFSC 4F071. Also, experience managing aeromedical services.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, qualification to operate government vehicles according to AFMAN 24-309, *Vehicle Operations*.
3.5.2. For award and retention of AFSCs 4F051/71, certification from the National Registry for Emergency Medical Technicians as an emergency medical technician (basic). After initial certification, continued certification is mandatory.

CEM Code 4H000
AFSC 4H091, Superintendent
AFSC 4H071, Craftsman

Journeyman AFSC 4H051
Apprentice AFSC 4H031
Helper AFSC 4H011

CARDIOPULMONARY LABORATORY

1. Specialty Summary. Performs and manages cardiopulmonary laboratory functions and activities for noninvasive diagnostic cardiac procedures, invasive diagnostic and interventional cardiac procedures, pulmonary function testing, diagnostic and therapeutic bronchoscopies, and respiratory therapy. Related DoD Occupational Subgroup: 300.

2. Duties and Responsibilities:
2.1. Performs and supervises cardiopulmonary functions such as electrocardiograms, exercise stress testing, and ambulatory electrocardiographic monitoring. Assesses heart structures and flows via 2-D and m-mode echocardiography, Doppler, and contrast colors. Assists physician with transesophageal and stress echocardiography, and radionuclide and thallium studies. Interprets arrhythmias. Serves on cardiac catheterization (invasive) procedures teams. Assists in placing specialized equipment and instruments into cardiovascular system for diagnosis and therapy, including cardiac pacemaker and balloon pump insertion. Operates and maintains specialized equipment to evaluate respiratory or pulmonary functions, and respiratory physiology. Performs spirometry, flow volume loops, lung volumes, diffusion capacities, and closing volumes. Draws and analyzes arterial blood gas samples. Maintains quality control of arterial blood gas machines and CO oximeters, including proficiency testing. Performs broncho-provovation and exercise testing. Assists physician with fiberoptic bronchoscopy for diagnosis and therapy. Under orders of a physician, administers respiratory care such as oxygen and aerosol therapy, mechanical ventilator management, and preparation and administration of respiratory medications. Assists physician with intubation and extubation procedures. Performs endotracheal tube care. Maintains patient airway. Ensures bronchial hygiene through incentive spirometry and specialized breathing instructions. Prepares and instructs patient to use equipment or perform procedure. Checks patient and equipment, and changes equipment. Monitors data display on physiological equipment, and obtains and records vital signs. Performs cardiopulmonary resuscitation (CPR). Assesses and documents patient status. Performs user maintenance on equipment. Adheres to infection control and universal precautions procedures, including disposition of contaminated materials. Practices safety and security measures.
2.2. Performs cardiopulmonary laboratory administrative, maintenance, and support functions. Ensures equipment is calibrated to manufacturer's specifications. Cleans, disinfects, and sterilizes (or prepares for sterilization) cardiopulmonary equipment. Operationally checks and inspects equipment. Determines inventory level of disposable supplies; stocks accordingly; and returns excess stock. Prepares equipment requisitions. Maintains CPR cart. Ensures emergency equipment is available and functional. Schedules patients for evaluations, procedures, and treatments. Obtains medical records. Greets patients and answers telephone. Practices patient and coworker sensitivity. Assists with transportation of patients to and from hospitals, and those in the air evacuation system requiring mechanical ventilation. Maintains general correspondence, files, records, and reports. Provides biometric data.
2.3. Manages cardiopulmonary laboratory functions and activities. Develops staffing requirements. Determines work priorities, methods, and procedures. Develops operating instructions and determines policies. Prepares budget requirements. Evaluates, budgets, and justifies new equipment purchases. Establishes and maintains publications library. Ensures compliance with credentialing agencies' standards. Participates in and manages quality assurance and improvement (QA&I) efforts. Directs on-going continuing education and in-services, developed in part from QA&I findings. Ensures implementation of disaster and emergency plans, as well as safety and security. Collects, analyzes, and reports biometric data. Processes collected data for physician interpretation.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: general anatomy and physiology; cardiopulmonary system structures and functions; basic pharmacology; patient care theory, procedures, and techniques; medical terminology; aseptic techniques; medical ethics; resuscitation techniques; maintaining and operating cardiopulmonary laboratory diagnostic and therapeutic equipment; medications; and medical computer systems, readiness, and resources management.
3.2. Education. For entry into this specialty, completion of high school or college courses in algebra and chemistry is mandatory.

3.3. Training. Completion of the following training is mandatory for award of the AFSC indicated:
3.3.1. 4H031. The apprentice cardiopulmonary laboratory specialist course.
3.3.2. 4H051. The cardiopulmonary laboratory specialist (phase II) course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 4H051. Qualification in and possession of AFSC 4H031. Also, experience performing diagnostic and therapeutic procedures to care for and treat cardiopulmonary laboratory patients.
3.4.2. 4H071. Qualification in and possession of AFSC 4H051. Also, experience performing or supervising diagnostic and therapeutic procedures to care for and treat cardiopulmonary laboratory patients or operation of cardiopulmonary and respiratory equipment.
3.4.3. 4H091. Qualification in and possession of AFSC 4H071. Also, experience managing diagnostic and therapeutic activities involving patient care and treatment.
3.5. Other. Not used.

CEM Code 4J000
AFSC 4J091, Superintendent
AFSC 4J071, Craftsman
Journeyman AFSC 4J051
Apprentice AFSC 4J031
Helper AFSC 4J011

OCCUPATIONAL THERAPY

1. Specialty Summary. Assists occupational therapist to plan therapeutic activity programs to rehabilitate patients with physical and psychosocial dysfunction. Manages occupational therapy activities and resources. Related DoD Occupational Subgroup: 303.

2. Duties and Responsibilities:
2.1. Assists in treating patients. Conducts activities to meet treatment goals outlined by occupational therapist. Plans activities to implement treatment plans. Ensures proper instruction in treatment modalities. Observes, records, and exchanges information with other involved health professionals concerning patient's functional level, progress, and treatment plan. Modifies activities as patient needs change. Develops therapeutic goals. Motivates and encourages patients toward skill and performance goals in independent and daily living, sensory-motor, cognitive, and psychosocial areas. Prepares for activity by assembling supplies and equipment. Instructs patients in activities such as crafts, communication, time-stress management, and in operating related equipment. Supports and conducts special occupational therapy programs. Conducts therapeutic work program. Manages administering and recording standard evaluations.
2.2. Assists in patient assessment and evaluation. Screens patients. Gives specialized evaluation tests. Contributes to evaluation process as directed by the occupational therapist. Gathers and documents performance data. Conducts standard evaluations such as range-of-motion, hand function, daily living activities, and interest inventory, and records results.
2.3. Supports clinic operations. Makes minor repairs and adjustments to machines. Ensures tools and equipment are used for designated purpose.
2.4. Designs and builds special rehabilitation equipment. Fabricates splints and devices to protect or assist patient in achieving optimal independent physical function. Manages fabrication of special devices.
2.5. Performs administrative functions. Analyzes and coordinates resource requirements. Manages supply and equipment requisition, issue, and storage. Coordinates occupational therapy unit activities. Establishes procedures for using and maintaining equipment. Monitors quality assurance programs.
2.6. Plans and organizes phases of occupational therapy activities. Evaluates and consolidates requirements for resources and makes recommendations. Develops and improves working environment conducive to time and operation economy for professional personnel. Coordinates services and administrative activities to achieve an integrated rehabilitation program. Responsible for budget management. Reviews professional activities with superiors.
2.7. Manages continuing health education. Manages curriculum development for continuing health education. Evaluates adequacy of formal and clinical practice phases of training program, and recommends changes.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: functional anatomy, kinesiology, physiology, psychology, and psychiatry; occupational therapy; pharmacology; medical terminology; craft activities techniques and application; operating and maintaining equipment; communication skills and instruction methods; medical ethics; medical logistics and resource management procedures, and records management.
3.2. Education. For entry into this specialty, completion of high school with high school or college courses in general sciences, such as anatomy or physiology, biology, chemistry, hygiene, psychology, industrial arts, and communication skills is desirable.
3.3. Training. For award of AFSC 4J031, completion of a basic occupational therapy course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 4J051. Qualification in and possession of AFSC 4J031. Also, experience teaching patients to perform therapeutic activities.
3.4.2. 4J071. Qualification in and possession of AFSC 4J051. Also, experience carrying out treatment.
3.4.3. 4J091. Qualification in and possession of AFSC 4J071. Also experience managing occupational therapy activities and functions.
3.5. Other. For entry, award, and retention these AFSCs, no record of emotional instability is mandatory.

CEM Code 4J000
AFSC 4J092, Superintendent
AFSC 4J072, Craftsman
Journeyman AFSC 4J052
Apprentice AFSC 4J032
Helper AFSC 4J012

PHYSICAL THERAPY

1. Specialty Summary. Administers physical therapy patient care. Performs or assists with administrative activities. Manages physical therapy activities and resources. Related DoD Occupational Subgroup: 303.

2. Duties and Responsibilities:
2.1. Administers physical therapy patient care under supervision of a physical therapist, authorized extender, or credentialed provider. Physical therapy duties include implementing treatment programs according to care plan; training patient in exercise and activities of daily living; conducting treatments; using special equipment; administering modalities; and other treatment procedures. Prepares patient for treatment by proper dress and position, and frequently checks on patient during treatment period to satisfy patient needs. Coordinates patient and therapist treatment schedules. Documents patient care. Observes, records, and reports patient responses. Assists physical therapist with evaluations, tests, measurements, and procedures, including wound and burn care. Notes diagnosis of patient and takes precautions to observe indications and contradictions. Maintains standards of care and ethical conduct set down by the American Physical Therapy Association.
2.2. Performs, assists with, or manages physical therapy administrative activities. Coordinates administrative activities to assure effective and efficient delivery of patient care and rehabilitation programs. Maintains records of physical therapy cases and prepares activity reports. Performs and maintains collection of patient data through the data processing system. Reviews reports and records for accuracy and compliance with directives, and submits data to appropriate authority. Assists in monitoring and evaluating physical therapy activities and determining compliance with standards of care, policies, and directives. Evaluates technical and administrative activities to improve clinic proficiency.
2.3. Manages material and equipment. Analyzes needs and recommends requirements for resources. Coordinates, prepares, and submits annual budget. Requisitions and issues supplies and equipment for physical therapy service. Ensures compliance with inspection and maintenance procedures, and safeguards physical therapy equipment. Ensures physical therapy standards, directives, policies, or procedures provide quality patient care in an ethical, legal, safe, sanitary, caring, and efficient environment.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: sciences basic to physical therapy, including physical, physiological, anatomical, social, and behavioral; basic and clinical sciences, including laboratory or other practical experience; testing and treatment procedures constituting scope of physical therapist practice; clinical participation in diverse areas of physical therapy delivery system; medical logistics procedures; administrative procedures; and medical ethics.
3.2. Education. For entry into this specialty, completion of high school with courses in biology, physical science, and physics is desirable.
3.3. Training. For award of AFSC 4J032, completion of a basic physical therapy course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 4J052. Qualification in and possession of AFSC 4J032. Also, experience in functions such as administering physical therapy care.
3.4.2. 4J072. Qualification in and possession of AFSC 4J052. Also, experience performing or supervising physical therapy care.
3.4.3. 4J092. Qualification in and possession of AFSC 4J072. Also, experience managing physical therapy activities of operation.
3.5. Other. For entry, award, and retention of these AFSCs, no record of emotional instability is mandatory.

CEM Code 4M000
AFSC 4M091, Superintendent
AFSC 4M071, Craftsman

Journeyman AFSC 4M051
Apprentice AFSC 4M031
Helper AFSC 4M011

AEROSPACE PHYSIOLOGY

1. Specialty Summary. Manages aerospace physiology operation facility. Operates and maintains aerospace physiology devices including altitude chambers. Instructs or observes on simulated flights to altitude, and instructs in a classroom. Trains flying personnel in subjects such as aircraft pressurization, night vision, emergency first aid, oxygen equipment, and emergency escape from aircraft. Other areas of responsibility include physiology research and development, parasail instructor, and high altitude pressure suit technician. Manages associated aerospace physiology programs. Related DoD Occupational Subgroup: 324.

2. Duties and Responsibilities:

2.1. Plans and conducts aerospace physiology activities. Assists aerospace physiologist and flight surgeons to set up local flying activity procedures to physiologically indoctrinate flying personnel. Schedules and operates low-pressure chambers to subject personnel to simulated changes in barometric pressure experienced in flying. Controls pressure inside chamber. Monitors air and oxygen pressure gauges, altimeters, vertical speed instruments, humidity meters, temperature gauges, and other instruments indicating chamber conditions. Operates altitude pressure suite control console to adjust pressures inside suits and helmets. Operates hyperbaric and hypobaric chambers for physiological research. Assists medical officers and performs hyperbaric observer duties. Participates in physiological support of high altitude low opening (HALO) parachute operations. Operates night vision trainers and projectors, controlling light intensities, silhouette movements, target and aircraft projection, and introduction of illusory effects. Operates ejection seat trainer, and adjusts seat, restraining harness, headrest, and student position to ensure safety during firing. Enforces safety procedures. Operates and demonstrates parasail training equipment, including parasail device, tow reel, tow truck, radio equipment, and meteorological devices. Establishes routine storage, inspection, and maintenance procedures for life support equipment and replacement parts used by training unit.

2.2. Conducts training and testing with aerospace physiology devices. Briefs trainees before hyperbaric and hypobaric chamber dives and flights, or other types of physiological training. Questions trainees for disqualifying defects requiring referral to aerospace physiologist or flight surgeon. Acts as inside and outside observer, or other crew positions during chamber flights and training sessions. Notes signs of hypoxia, decompression sickness, and other untoward effects, and assists trainees. Administers tests on physiological data and equipment covered in lectures and trainer indoctrination. Records information on chamber flights, trainer use, student reactions and symptoms, and operator performance. Briefs students on parasail and proper parachuting techniques. Fits and maintains full and partial pressure suits. Supports associated flight operations. Operates hyperbaric chambers and associated equipment for proficiency and medical treatments. Instructs in parachuting techniques, including landing-fall procedures, swing landing trainer practice, and parasail device use. Operates and demonstrates physiological support devices used in HALO parachuting devices.

2.3. Instructs in aerospace physiology program. Assists in conducting lectures, discussions, and demonstrations to indoctrinate flying personnel in physical and physiological effects and stresses of flight on the human body. Discusses physiological factors involved in acceleration, exposure to temperature extremes, pressure cabins and rapid decompression, high altitude escape, effective use of eyes under various light conditions, sensory illusions of flying, and various in-flight emergency situations. Instructs students in use of oxygen masks, pressure suits, anti-gravity suits, flying clothing, emergency cylinders, portable assemblies, anti-buffeting helmets, and other high altitude protection equipment. Instructs and supervises trainees in fitting, adjusting, and caring for oxygen masks and other personal equipment, and in using oxygen regulators, ejection seats, and safety harnesses. Instructs parachuting techniques, including landing-fall procedures, swing landing trainer practice, and parasail devices use. Operates and demonstrates physiological support devices for HALO parachuting devices. Advises training officers on matters regarding course curriculum and preparing training manuals.

2.4. Prepares and maintains records. Records information on types and duration of hyperbaric and hypobaric chambers, trainer use, and participating student and operator personnel. Records occurrence and severity of symptoms of decompression sickness, collapse reactions, and other physiological or psychological disturbances caused by chamber flights. Maintains individual records of training completion. Helps prepare reports. Collects data on special tests.

2.5. Maintains and modifies apparatus. Performs simple maintenance on low-pressure chamber and pumps, hyperbaric treatment chambers, interphone equipment, ejection seat trainers, pressure suits, oxygen equipment, and other physiological training devices. Readies training devices and aids for indoctrination sessions. Conducts preflight and preuse equipment checks. Installs replacement parts in defective equipment. Prepares recording instruments to follow course of operations and special tests. Modifies standard equipment and apparatus to perform special tests. Constructs special training aids, mockups, and testing devices.

2.6. Inspects and evaluates aerospace physiology activities. Reviews policies and procedures to determine compliance with directives. Evaluates indoctrination program. Interprets findings and recommends corrective action. Coordinates and consults with aerospace physiologist to improve administrative and technical methods.
2.7. Performs technical aerospace physiology functions. Resolves technical problems pertaining to aerospace physiology operations. Obtains and compiles data for aerospace physiology activity reports. Assists in research activities.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: anatomy and physiology, physiological effects of flight, emergency medical care, techniques of operating and maintaining aerospace physiology devices, using and fitting flying equipment, instructional methods, and examination procedures.
3.2. Education. For entry into this specialty, completion of high school courses in biology and chemistry are desirable.
3.3. Training. For award of AFSC 4M031, completion of the following training is mandatory:
3.3.1. A basic aerospace physiology course.
3.3.2. An appropriate course in academic instruction.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 4M051. Qualification in and possession of AFSC 4M031. Also, experience in functions such as operating and maintaining physiological training devices, or fitting, maintaining, or inspecting oxygen and personal flying equipment.
3.4.2. 4M071. Qualification in and possession of AFSC 4M051. Also, experience supervising functions such as operating and maintaining aerospace physiology devices, administering tests to physiological trainees, or instructing in physiological training.
3.4.3. 4M091. Qualification in and possession of AFSC 4M071. Also, experience managing functions such as operating and maintaining aerospace physiology devices, administering tests to physiological trainees, or instructing in physiological training.
3.5. Other. For entry, award, and retention of these AFSCs, the following is mandatory:
3.5.1. Clear voice without speech impediments.
3.5.2. Physical qualification for aircrew duty according to AFI 48-123, *Medical Examination and Standards,* Class III medical standards.

CEM Code 4N000
AFSC 4N091, Superintendent
AFSC 4N071, Craftsman

Journeyman AFSC 4N051*
Apprentice AFSC 4N031*
Helper AFSC 4N011*

MEDICAL SERVICE
(Changed 30 Apr 97)

1. Specialty Summary. Participates in, and manages planning, providing, and evaluating patient care. Organizes the medical environment, performs and directs support activities in patient care situations, including contingency operations and disasters. Performs duty as independent duty medical technician (IDMT), aeromedical evacuation technician (AET), or hyperbaric medical technician (HBMT); performs and supervises allergy and immunization technician (AIT) functions; or neurology technician (NT) functions. Related DoD Occupational Subgroup: 300.

2. Duties and Responsibilities:
2.1. Provides, supervises and manages patient care activities. Performs nursing tasks. Acts as team leader and member. Monitors and records physiological measurements. Performs portions of medical treatment, diagnostic, and therapeutic procedures. Cares for, observes, and reports on postoperative patients and seriously or critically ill and injured patients. Prepares and gives medications under nurse or physician supervision. Performs selected treatments and reports results. Assembles, operates, and maintains therapeutic equipment. Provides field medical care in contingency operations and disasters. Performs basic life support and triage in emergency situations. Performs care of deceased patients. Orients new patients to the hospital environment. Admits, discharges, and transfers patients as directed. Observes, reports, and records observations in patient progress notes and team conferences. Records treatments and procedures rendered, and observes effects. Records physiological measurements. Assists professional personnel in identifying patient needs or problems in team conference. Identifies patient problems, and assists in developing and evaluating patient care plan. Maintains linen and supply areas. Obtains and maintains supplies. Disposes of medical waste. Maintains medical records from patient's admission through transfer or discharge. Initially receives and screens patients. Assists with patient's medical treatment. Provides emergency medical care. Operates emergency medical and other vehicles. Loads and unloads litter patients. Assists physician or nurse with clinic procedures. Submits reports of treatments rendered. Maintains outpatient medical records. Participates in contingency or disaster field training, exercises, and deployments.
2.2. Provides medical training to agencies and personnel other than medical. Training includes areas such as national registered emergency medical technician and self-aid buddy care. Schedules inservice training in new procedures, techniques, and equipment. Provides required basic life support training. Conducts or schedules periodic disaster training, fire drills, and evacuation procedures.
2.3. In medical officer's absence, performs duty as an IDMT at deployed operating locations and at remote sites. Renders medical and dental treatment and emergency treatment; recommends evacuation to a location where definitive medical treatment facilities are available. Performs pharmacy, laboratory, bio-environmental, public health, medical logistics, and medical administration duties.
2.4. Performs AET duties. Prepares patients and equipment for flight. Prepares aircraft for patient enplaning. Enplanes and deplanes patients. Loads and unloads baggage. Functions as an aeromedical evacuation crew member when assigned to aeromedical evacuation duties. Assists flight nurse with in-flight patient care. Provides emergency care for patients in event of medical or aircraft emergency.
2.5. Performs AIT duties. Schedules patient appointments, and requests routine laboratory studies. Assists physicians in treating allergy patients, and administers immunizations. Performs screening or allergy testing as directed by physicians. Administers allergen injections to patients on schedule established by physician. Reviews patient's progress under their treatment schedule, and enters remarks in patient allergy records. Notifies physician of any abnormal developments. Carefully evaluates patients to determine if physician should be called during treatment, or if future treatment should be discontinued until examined by a physician. Screens incoming queries from other allergy and immunization clinics, and supplies information. Performs basic pulmonary functions studies. Performs nasal smears to determine differential count or bacteria presence. Obtains cultures for laboratory studies. Prepares allergenic extracts and specific allergy treatment extracts. Recognizes symptoms of shock, asthma, systemic reactions, and syncope. Administers proper emergency treatment while summoning supervising physician. Uses both needle and gun injector techniques to administer inoculations. Performs tuberculoses and other lung fungus testing. Performs tests for anergy. Provides post immunization instructions in regard to expected reactions and in proper care of vaccinations. Arranges, schedules, and supervises mass immunizations. Arranges for updating all immunization records, and schedules times to render immunizations to unit personnel. Sterilizes and prepares instruments for use in examinations and treatment.
2.6. Performs NT duties. Prepares patients for examination, treatment, and diagnostic procedures. Assists physician with diagnostic procedures and treatments. Performs routine user maintenance of electroencephalographic and electromyographic equipment. Assembles equipment, and prepares area to ensure proper equipment operation. Calibrates recording apparatus,

and adjusts same for proper electrode selection. Obtains satisfactory tracings by eliminating all artifacts and extraneous potentials. Assists in performing special electroencephalographic and electromyographic procedures. Establishes laboratory and administrative functions for care and storage of tracings and reports. Ensures proper maintenance of neurodiagnostic equipment.

2.7. Performs HBMT duties. Prepares patients and equipment for hyperbaric dive. Prepares hyperbaric chamber for patient placement. Positions patients. Functions as hyperbaric dive crew member. Assists hyperbaric nurse or physician with patient care during the dive. Provides emergency care for patients in event of medical or hyperbaric chamber emergency.

2.8. Manages and directs medical service resources. Coordinates medical service activities with executive and clinical management teams.

3. Specialty Qualifications:

3.1. Knowledge. The following knowledge is mandatory for award of AFSC indicated:

3.1.1. 4N0X1/X1X. Medical terminology, anatomy and physiology; nursing theory, techniques and procedures; team nursing; patient needs; emergency medical treatment to include cardiopulmonary resuscitation, aseptic technique, medical ethics, and legal aspects; prescribed drugs and their administration; operating and maintaining therapeutic equipment, military hygiene and sanitation; risk management, contingency operations, disaster preparedness, and chemical warfare; and transportation of sick and wounded.

3.1.2. 4N0X1A. Vaccination procedures; methods of properly administering intradermal, subcutaneous, and intramuscular injections; pollen counting; allergen identification; composition of various vaccines; mechanisms of anaphylaxis and shock and their treatment; and pharmacology of various drug groups.

3.1.3. 4N0X1B. Neurological patient examination, treatment, and diagnostic procedures; and operation and user maintenance of electroencephalographic, electromyographic, and other neurodiagnostic equipment.

3.2. Education. For entry into this specialty, completion of high school with courses in general science, biology, psychology, and chemistry is desirable.

3.3. Training. The following training is mandatory for award of the AFSC indicated:

3.3.1. 4N031. Completion of a basic medical service course.

3.3.2. 4N031A. Completion of a basic allergy immunization technician course.

3.3.3. 4N031B. Completion of a basic neurology technician course.

3.4. Experience. The following experience is mandatory for award of AFSC indicated:

3.4.1. 4N051/51X. Qualification in and possession of AFSC 4N031/31X. Also, experience performing functions such as care and treatment of patients, operating and maintaining therapeutic equipment, and properly administering parenteral immunizing biologicals.

3.4.2. 4N071. Qualification in and possession of AFSC 4N051/51X. Also, experience performing or supervising functions such as nursing activities; care and treatment of patients; operating and maintaining therapeutic equipment; conducting subprofessional portions of physical examinations; or assisting in medical treatment of patients.

3.4.3. 4N091. Qualification in and possession of AFSC 4N071. Also, experience managing functions such as medical, and related patient care and administrative activities.

3.5. Other. The following are mandatory as indicated:

3.5.1. For entry into this specialty, qualification to operate government vehicles according to AFMAN 24-309, *Vehicle Operations*.

3.5.2. For entry into shredout A or B, prior qualification in and possession of AFSC 4N051/71.

3.5.3. For entry, award, and retention of shredout B, no record of emotional instability.

4. * Specialty Shredouts

Suffix	*Portion of AFS to Which Related*
A	Allergy/Immunology (includes duties and responsibilities contained in paragraph 2)
B	Neurology (includes duties and responsibilities contained in paragraph 2)

NOTE: Suffixes A and B are applicable to the 1-, 3-, and 5-skill levels only.

CEM Code 4N000
AFSC 4N191, Superintendent
AFSC 4N171*, Craftsman
Journeyman AFSC 4N151*
Apprentice AFSC 4N131*
Helper AFSC 4N111*

SURGICAL SERVICE
(Changed 30 Apr 97)

1. Specialty Summary. Participates in, and manages planning, providing, and evaluating surgical patient care activities and related training programs. Organizes the medical environment, performs and directs support activities in patient care situations, including contingency operations and disasters. Assists professional staff in providing patient care for the surgical patient before, during, and after surgery. Performs scrub and circulating duties in the operating room (OR). Assists with post-anesthesia recovery of patients. Processes, stores, and distributes sterile supplies. Participates in planning, implementing, and evaluating management activities related to the OR and Central Sterile Supply Services (CSSS). Performs duties in and supervises the urology, orthopedic, and otorhinolaryngology surgical specialties. Related DoD Occupations Subgroup: 301.

2. Duties and Responsibilities:
2.1. Directs, performs, and coordinates administrative functions. In coordination with executive management team, establishes administrative policies for surgical functions and provides input into strategic resource planning. Manages the preparation of correspondence, records, and their maintenance. Determines methods and sources of obtaining data for routine or special reports. Directs, coordinates, and validates budget requirements. Serves as a consultant to MAJCOM Medical Service Manager. Participates or assists in developing and implementing command programs. Conducts staff assistance and consultant visits. Assists the executive management team with developing, interpreting, and evaluating instructions, regulations, policies, and procedures. Oversees development, implementation and evaluation of medical readiness plans and programs. Oversees and participates in implementation of continual quality improvement plans and programs.
2.2. Provides, supervises and manages surgical patient care activities. Performs surgical tasks. Acts as team leader and member. Transports patients, and related records to and from the OR and recovery room. Assists nursing staff with preoperative patient preparation activities. Helps with routing medical materiel management activities. Accomplishes routine safety checks and operator preventive maintenance on fixed and moveable medical equipment and fixtures. Performs routine and specialized housekeeping activities. Prepares OR for surgery by setting up and opening sterile supplies and instruments. Assists anesthesia personnel with patient positioning and anesthesia administration. Applies principles of asepsis, infection control, and medical ethics. Assists with terminal cleanup of OR and prepares for follow-up procedures. Receives, decontaminates, and cleans soiled patient care items. Assembles, wraps, and sterilizes instrument sets, supplies, and linen packs. Stores, maintains, and distributes sterile patient care items. Assists the circulating nurse with preparing records, reports, and requests. Prepares specimens for transport to the laboratory. Performs scrub duties in OR. Scrubs hands and arms and dons sterile gown and gloves. Prepares and maintains sterile instruments, supplies, and equipment of draped tables and stands. Counts sponges, needles, instruments, and related items with circulating nurse before, during, and after surgical procedures. Assists the operative team with applying sterile drapes to the surgical field. Passes instruments, sutures, and other supplies to the sterile operative team. Anticipates surgeons needs, and provides additional assistance as directed. Cares for surgical specimens on the sterile field. Cleans and prepares instruments and reusable supplies for terminal sterilization and decontamination. Participates in contingency or disaster field training, exercises, and deployments.
2.3. Performs recovery room or basic nursing duties. Assists surgeon and nursing staff with monitoring and recording vital signs. Administers oxygen, helps arouse patient, and carries out surgeons post-operative orders. Assists with identifying and managing of postoperative complications.
2.4. Performs general clinic functions. Schedules and prepares patients and sets up instruments, supplies, and equipment for specialized procedures in the OR and specialty clinics. Assists specialty surgeon during surgical and diagnostic procedures. Assembles, operates, and maintains diagnostic and therapeutic equipment. Orders diagnostic laboratory and radiographic procedures as directed. Performs administrative activities unique to specific surgical clinics.
2.5. Provides medical training to agencies and personnel other than medical. Truing includes areas such as aseptic technique and self-aid buddy care. Schedules inservice training in new procedures, techniques, and equipment. Provides required basic life support training. Conducts or schedules periodic disaster training, fire drills, and evacuation procedures.
2.6. Performs urology functions. Operates special urological radiography equipment. Administers injections, catheterizes patients, performs laboratory tests and procedures, and administers intravesical medications.
2.7. Performs orthopedic functions. Applies and removes casts and splints as directed by health care providers. Assembles and applies orthopedic traction devices. Instructs patients in using crutches, canes, and other orthopedic appliances.
2.8. Performs otorhinolaryngology functions. Performs minor diagnostic and therapeutic ear, nose, and throat (ENT) procedures. Administers local anesthetics under supervision of the physician. Performs diagnostic hearing evaluations and vestibular function tests. Makes ear mold impressions for hearing aids. Performs facial nerve testing.

2.9. Performs management and training functions within surgical services. Plans and schedules workloads and duty assignments. Establishes work methods and standards. Evaluates work capability and proficiency of subordinates. Plans and conducts training. Interprets policies and regulations. Inspects and evaluates activities and procedures to ensure maintenance of asepsis and proper environmental, equipment, and facility safety conditions. Analyzes requirements and supervises requisition, storage, maintenance, and issue of equipment and supplies. Supervises preparation and maintaining reports and records.

3. Specialty Qualifications:

3.1. Knowledge. The following knowledge is mandatory for award of AFSC indicated:

3.1.1. 4N1X1/X1X. Fundamentals of anatomy and physiology; principles of asepsis and sterile techniques; preparing and storing surgical sets and packs, surgical instrumentation, and equipment; OR and anesthesia procedures; pathology as it applies to specimen care and handling; basic microbiology and infection control principles; basic surgical pharmacology; sterilizing and disinfecting procedures; surgical and anesthesia complications and their treatment; hospital and OR environmental hazards and safety procedures; handling and storage of compressed gases; basic medical material procedures; basic medical administrations procedures; legal aspects of preoperative care and medical ethics; roles and qualifications of surgical team members; and basic clinical functions.

3.1.2. 4N1X1B. Anatomy and physiology of the genitourinary system and its disorders, genitourinary system terminology, and radiology techniques in urological procedures.

3.1.3. 4N1X1C. Anatomy and physiology of the musculoskeletal system and its disorders; musculoskeletal system terminology; common practices, techniques, and principles of fracture immobilization including plaster and other casting materials; methods and principles of traction application; and common orthopedic complications and their management.

3.1.4. 4N1X1D. Anatomy and physiology of the head and neck; disorders of ENT; medical terminology related to the ENT specialty; and special audiometry testing.

3.2. Education. For entry into this specialty, completion of high school course in general science, biology, chemistry, hygiene, and psychology is desirable.

3.3. Training. The following training is mandatory for award of the AFSC indicated:

3.3.1. 4N131. Completion of the surgical service resident and clinical course.

3.3.2. 4N151B. Completion of the basic urology course.

3.3.3. 4N151C. Completion of the basic orthopedic course.

3.3.4. 4N151D. Completion of the basic otorhinolaryngology course.

3.4. Experience. The following experience is mandatory for award of the AFSC indicated:

3.4.1. 4N151/51X. Qualification in and possession of AFSC 4N131/31X. Also, experience in functions such as general care and treatment of patients; assisting the operative team and nursing staff in surgery; preparing patients for surgery; and performing sterile, unsterile, and related surgical activities.

3.4.2. 4N171/71X. Qualification in and possession of AFSC 4N151/51X. Also, experience supervising and performing functions such as assisting surgeon and supervisor.

3.4.3. 4N191. Qualification in and possession of AFSC 4N171/71X. Also, experience managing functions such as medical, surgical, and related patient care and administrative activities.

3.5. Other. The following are mandatory as indicated:

3.5.1. For entry into shredouts B, C, and D, prior qualification and possession of AFSCs 4N151/71.

3.5.2. For award of shredout D, certification in audiology is mandatory for shredout D personnel assigned to hearing conservation diagnostic centers.

4. * Specialty Shredouts

Suffix	*Portion of AFS to Which Related*
B	Urology
C	Orthopedics
D	Otorhinolaryngology

CEM Code 4P000
AFSC 4P091, Superintendent
AFSC 4P071, Craftsman
Journeyman AFSC 4P051
Apprentice AFSC 4P031
Helper AFSC 4P011

PHARMACY

1. Specialty Summary. Manages administrative and technical pharmacy activities. Requisitions, stocks, compounds, and dispenses pharmaceuticals. Safeguards controlled drugs. Maintains and operates pharmacy information systems. Related DoD Occupational Subgroup: 312.

2. Duties and Responsibilities:
2.1. Compounds and dispenses pharmaceuticals. Interprets prescriptions and formulas for appropriateness and conformity with established guidelines. Confers with prescribers or patients on questions to assure desired therapeutic outcome. Performs and verifies pharmaceutical calculations. Selects and prepares drug orders according to accepted standards. Manufactures, labels, and stores preparations according to accepted compendia and reference literature.
2.2. Performs inventory control functions. Establishes requirements, requisitions, and stores drugs and equipment. Prepares orders needed for emergency, controlled drug, or other special items. Initiates defective drug product complaints. Processes adverse drug reaction reports.
2.3. Plans and organizes pharmacy activities. Develops economical, efficient work methods and operating procedures. Coordinates pharmacy activities with other functional areas. Develops and directs pharmacy quality assurance programs.
2.4. Inspects and evaluates pharmacy activities. Conducts periodic inspections of all drug storage and usage areas. Corrects discrepancies and maintains inspection reports.
2.5. Develops formulations. Assists in the development of new or modified drug formulations. Maintains current drug information literature for pharmacy and medical staff. Participates in Pharmacy and Therapeutics Committee functions.
2.6. Performs pharmacy administrative functions. Provides proper maintenance and disposal for all pertinent Air Force and drug records. Prepares and revises Medical Facility Drug Formulary.
2.7. Operates and maintains data automation equipment. Performs routine cleaning and maintenance of computer software and hardware. Revises data automation needs in accordance with current technology and availability.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: pharmaceutical chemistry; pharmaceutical calculations; pharmacology and medical ethics; pharmacy management; medical administrative procedures; quality assurance; medical supply and local procedures; documentation management.
3.2. Education. For entry into this specialty, successful completion of one year of high school or one unit of college algebra in mandatory. Completion of high school or college courses in anatomy, physiology, biology, chemistry, automated data processing, and typing is desirable.
3.3. Training. For award of AFSC 4P031, completion of a basic pharmacy course is mandatory.
3.4. Experience. The following experience is mandatory for award of AFSC indicated:
3.4.1. 4P051. Qualification in and possession of AFSC 4P031. Also, experience in preparing, storing, or dispensing medications.
3.4.2. 4P071. Qualification in and possession of AFSC 4P051. Also, experience performing or supervising function such as compounding, storing, or dispensing medicinal preparations.
3.4.3. 4P091. Qualification in and possession of AFSC 4P071. Also, experience managing functions such as those involved in administrative and technical pharmacy operations.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For award and retention of AFSCs 4P031/51, ability to keystroke at a rate of 25 words per minute.
3.5.3. For entry, award, and retention of these AFSCs, ability to speak distinctly without speech impediment.
3.5.4. For award and retention of AFSCs 4P091/00, ability to communicate clearly, both orally and in writing.

CEM Code 4R000, Manager
AFSC 4R090, Superintendent
AFSC 4R071*, Craftsman
Journeyman AFSC 4R051*
Apprentice AFSC 4R031*
Helper AFSC 4R011*

DIAGNOSTIC IMAGING
(30 Apr 96)

1. Specialty Summary. Operates equipment to produce diagnostic images and assists radiologist or physician with special procedures. Prepares equipment and patients for diagnostic studies and therapeutic procedures. Performs technical and administrative radiology activities. Ensures health protective measures such as universal precautions and radiation protection measures are established and employed. Assists the radiation oncologist. Manages diagnostic imaging functions and activities. Related DOD Occupational Subgroup: 313.

2. Duties and Responsibilities:
2.1. Operates fixed and portable radiographic equipment to produce routine diagnostic medical images. Computes techniques and adjusts control panel settings such as kilovoltage, milliamperage, exposure time, and focal spot size. Positions patient to image desired anatomic structures. Selects image recording media, adjusts table or cassette holder, aligns x-ray tube for correct distance and angle, and restricts radiation beam for maximum patient protection. Exposes and processes images.
2.2. Uses specialized equipment to perform nuclear medicine, mammography, ultrasound, computerized tomography, and magnetic resonance imaging. Selects imaging protocols and required accessories, and makes adjustments based on the specific examination requirements. Records and processes the image. Manipulates the recorded image using computer applications.
2.3. Assists physicians with fluoroscopic, interventional, and special examinations. Instructs patients preparing for procedures. Prepares and assists with contrast media administration. Maintains emergency response cart. Assists physician in treating reactions to contrast material. Prepares sterile supplies and equipment. Operates accessory equipment such as automatic pressure injectors, serial film changers and digital imagers, stereotactic biopsy devices, and vital signs monitoring equipment. Performs image subtraction and manipulation techniques.
2.4. Assists radiation oncologist in radiation treatment of disease. Operates treatment simulator. Constructs custom blocks and compensating filters. Uses electromagnetic and radioactive-source radiations in treating disease. Prepares and positions patients and equipment for, and delivers therapeutic and palliative radiation treatments. Sets and verifies dosage settings on equipment. Monitors patients during treatment activities. Documents patient treatment record.
2.5. Performs and supervises general diagnostic imaging activities. Mixes film processing solutions, loads and unloads film holders, and reproduces images. Cleans and inspects equipment and performs preventive maintenance. Receives patients, schedules appointments, prepares and processes examination requests and related records, and files images and reports. Enters and maintains data in radiology information systems. Assists with phase II didactic and performance training, evaluation and counseling of students, and maintenance of student academic records. Participates in formal research projects.
2.6. Establishes and maintains standards, guidelines, and practices. Composes protocols. Prepares routine positioning guides and technique charts. Reviews images to ensure quality standards are met. Performs equipment quality control checks such as processor sensitometry, film-screen contact tests, collimation and light field alignment tests, and safelight fog tests. Monitors personnel to ensure protective procedures such as those in the As Low As Reasonably Achievable (ALARA) radiation safety, hazardous material communications, and Air Force occupational safety and health programs are followed. Performs tests on radiation protection equipment. Assesses staff competence, and monitors appropriateness of care and completeness of examination requests.
2.7. Plans, organizes, and supervises diagnostic imaging activities. Analyzes workload and establishes production controls and performance standards for administrative and technical activities. Coordinates on interdepartmental issues that interface with diagnostic imaging. Prepares and implements financial plan, and monitors and analyzes annual expenditures. Prepares equipment purchase requests and justifications. Monitors equipment performance and preventive maintenance activities. Recommends new equipment procurement. Performs as the diagnostic imaging facility manger.

3. Specialty Qualifications:

3.1. Knowledge. The following knowledge is mandatory for award of the AFSC indicated:

3.1.1. 4R0X1/X1X. Human anatomy and physiology; medical terminology and ethics; legal aspects of medicine; healthcare accreditation standards; radiation physics, biology, and protection; basic electronics theory; techniques of operating x-ray and specialized diagnostic imaging equipment; radiographic positioning; patient care and monitoring techniques; image recording media and processing techniques; sensitometric and quality control procedures; aseptic and sterile techniques; reactions to contrast media; cardiopulmonary resuscitation; methods of recording the fluoroscopic image; budget preparation and execution; and medical records administration.

3.1.2. 4R0X1A. Algebra, nuclear physics, clinical chemistry, nuclear pharmacology, and Nuclear Regulatory Commission regulations concerning use of radionuclides.

3.1.3. 4R0X1B. Ultrasound physics; techniques of operating specialized ultrasound components and equipment; advanced knowledge of vascular and abdominal anatomy (topical and cross-sectional), including normal variant anatomy, abnormal anatomy, and obstetric and fetal anatomy; and transducer characteristics, differences, and use.

3.1.4. 4R0X1C. Magnetism, magnetic safety, radio frequency, and magnetic physics; techniques of operating MRI equipment; and advanced knowledge of cross sectional anatomy applicable to MRI.

3.2. Education. For entry into this specialty, completion of high school or general education development equivalency with successful completion of courses in algebra, and biology or general science are mandatory. Successful completion of high school or collegiate courses in chemistry and physics is desirable.

3.3. Training. The following training is mandatory for award of the AFSC indicated:

3.3.1. 4R031. Completion of a radiologic phase II course.

3.3.2. 4R031A. Completion of the nuclear medicine journeyman phase II course.

3.3.3. 4R031B. Completion of a diagnostic ultrasound course.

3.3.4. 4R031C. Completion of locally determined training in MRI technology, including formal lectures by radiologists or physicists, or civilian courses or seminars.

3.4. Experience. The following experience is mandatory for award of the AFSC indicated:

3.4.1. 4R051. Qualification in and possession of AFSC 4R031. Also, experience operating x-ray equipment, and producing and processing radiographs.

3.4.2. 4R051A/B/C. Prior qualification in and possession of AFSC 4R031A/B/C respectively. Also, experience performing nuclear medicine, ultrasound, or MRI functions and activities

3.4.3. 4R071. Prior qualification in and possession of AFSC 4R051. Also, experience performing or supervising functions such as producing radiographs, assisting with fluoroscopy and special radiographic procedures, or treating disease by radiotherapy.

3.4.4. 4R071A/B/C. Prior qualification in and possession of AFSC 4R051A/B/C respectively. Also, experience performing or supervising nuclear medicine, ultrasound, or MRI functions and activities.

3.4.5. 4R090. Prior qualification in and possession of AFSC 4R071, 4R071A, 4R071B, or 4R071C. Also, experience managing radiologic, nuclear medicine, ultrasound, or MRI functions and activities.

3.5. Other. The following are mandatory as indicated:

3.5.1. For entry into this specialty, a minimum age of 18 years.

3.5.2. For entry into 4R0X1A/B or C, prior qualification in and possession of AFSC 4R051/71

4. *Specialty Shredouts

Suffix	*Portion of AFS to Which Related*
A	Nuclear Medicine
B	Ultrasound
C	Magnetic Resonance Imaging

CEM Code 4T000 **Superintendent AFSC 4T090**

MEDICAL LABORATORY

1. Specialty Summary. Manages all medical laboratory activities in support of patient care, medical research, and military public health. Related DoD Occupational Subgroup: 311.

2. Duties and Responsibilities:
2.1. Plans and organizes medical laboratory activities. Composes local medical laboratory regulations. Advises superiors regarding status and adequacy of equipment, supplies, personnel training, and operating efficiency. Coordinates with other activities, agencies, and organizations.
2.2. Directs medical laboratory activities. Resolves problems about operating medical laboratory activities. Ensures supply and equipment availability. Applies continuous and effective internal quality control of all medical laboratory departments.
2.3. Inspects and evaluates medical laboratory activities. Inspects of medical laboratory activities. Furnishes deficiency reports and outstanding accomplishments to superiors. Interprets inspection findings, and recommends corrective action. Supervises laboratory work area maintenance according to good laboratory technique, taking precautions to maintains safe conditions for both hospital and laboratory personnel. Evaluates laboratory quality control programs effectiveness.
2.4. Performs medical laboratory functions. Assists medical officers and allied scientists in research assignment in broad pathology field. Prepares tissue for electron microscopy. Directs toxicology procedures performance incident to aerospace pathology and forensic medicine programs. Assists biological warfare officer in developing procedures for detecting bacteriological agents incident to biological warfare.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: pathology and histopathology fundamental, clinical chemistry, urinalyses, hematology, microbiology, blood banking, immunology, medical terminology, medical ethics applicable to performing medical laboratory procedures, and medical laboratory management and medical administration principles.
3.2. Education. Not used.
3.3. Training. Not used.
3.4. Experience. For award of AFSC 4T090, qualification in and possession of AFSC 4T071/72 or 4T073 is mandatory. Also, experience is mandatory managing functions such as preparing body tissues for microscopic study, chemical analyses, or bacteriology.
3.5. Other. Not used.

AFSC 4T071, Craftsman **Apprentice AFSC 4T031**
AFSC 4T051, Journeyman **Helper AFSC 4T011**

MEDICAL LABORATORY

1. Specialty Summary. Tests and analyzes specimens of human origin and other substances by established scientific laboratory techniques to aid in diagnosing, treating, and preventing diseases or to support medical research; and supervises medical laboratory activities. Related DoD Occupational Subgroup: 311.

2. Duties and Responsibilities:
2.1. Performs hematological tests and urinalyses. Accomplishes standardized quantitative and qualitative evaluation of erythrocytes, leukocytes, and thrombocytes. Examines stained blood smears microscopically and refers any abnormal cells to superiors. Performs coagulation studies on human blood and plasma. Performs chemical, macroscopic, and microscopic urine specimen examinations.
2.2. Performs chemical analysis. Analyses human material or other products submitted to the laboratory, using photometric, calorimetric, titrimetric, radioisotope, or any other chemical or physical procedures applicable to clinical chemistry. Calibrates and maintains all instruments. Makes necessary calculations and reports data to superiors. Reviews all chemistry procedures to ensure current procedures are used.
2.3. Performs blood bank duties. Draws and processes blood aseptically by standardized techniques. Completely types donors' and recipients' blood; assists in cross matching blood to establish donor-recipient compatibility, reporting any abnormal reactions to immediate supervisor. Prepares blood derivatives. Accomplishes all techniques required for blood transfusion service.
2.4. Performs microbiological and serological tests. Conducts procedures to isolate and identify bacteria by gross and microscopic examination, staining, biochemical and immunological procedures, or any other determination of growth characteristics. Performs sensitivity test on pathogenic bacteria. Assists in identifying viruses and fugi. Applies parasitological techniques to recover and identify parasites. Applies standard serological tests for identifying antibodies specific to diseases.
2.5. Accomplishes general medical laboratory duties. Conducts bacteriological and chemical examination of food products, water, dairy products, and sewage incidental to preventive and veterinary medicine programs. Takes all necessary precautions to maintains safe conditions in laboratory for both laboratory and hospital personnel. Performs preventative maintenance procedures on laboratory equipment. Performs and evaluates laboratory quality control procedures. Prepares reagents for use in test performance.
2.6. Plans, organizes, directs, coordinates, and evaluates medical laboratory activity. Composes local medical laboratory regulations. Applies continuous effective internal quality control of all medical laboratory departments. Advises superiors regarding status and adequacy of equipment, supplies, personnel training, and operating efficiency. Coordinates with other activities, agencies, and organizations. Resolves problems about operating medical laboratory activities. Inspects medical laboratory activities. Furnishes deficiency reports and outstanding accomplishments to superiors. Interprets inspection findings and recommends corrective actions.
2.7. Performs medical laboratory functions. Assists medical officers and allied scientist in research assignments in broad pathology field. Prepares tissue for electron microscopy. Directs toxicology procedures performance incident to aerospace pathology and forensic medicine programs. Assists in epidemiological investigations. Assists biological warfare officer in developing procedures for detecting bacteriological agents incident to biological warfare.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: hematology, urinalyses, clinical chemistry, microbiology, blood banking, immunology, medical terminology, medical ethics applicable to performing medical laboratory procedures, medical laboratory management and medical administrative principles, pathology and histopathology fundamentals, and routine equipment maintenance.
3.2. Education. For entry into this specialty, completion of high school courses in algebra and chemistry is mandatory. Completion of high school courses in biology, zoology, and other basic science is desirable.
3.3. Training. For award of AFSC 4T031, completion of the basic medical laboratory course is mandatory.

3.4. Experience. The following experience is mandatory for award of the AFSC indicated:

3.4.1. 4T051. Qualification and in possession of AFSC 4T031. Also, experience in performing functions in urinalyses, hematology, bacteriology, serology, and chemistry.

3.4.2. 4T071. Qualification in and possession of AFSC 4T051. Also, experience performing or supervising functions such as work normally performed in a routine clinical laboratory (class A dispensary or hospital); specialty performance of tests or technical supervisory experience in clinical chemistry, bacteriology, toxicology, or virology at class A, class B, or analogous laboratory; or combination of foregoing types of experience.

3.5. Other. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*, is mandatory.

AFSC 4T072, Craftsman **Apprentice AFSC 4T032**
AFSC 4T052, Journeyman **Helper AFSC 4T012**

HISTOPATHOLOGY

1. Specialty Summary. Performs subprofessional duties at autopsies, prepares autopsy and surgical specimens, and supervises histopathology activities. Related DoD Occupational Subgroup: 311.

2. Duties and Responsibilities:
2.1. Prepares surgical, cytological, and autopsy specimens. Receives and prepares specimens for fixation, dehydration, and impregnation processes by either manually or automatically sending specimens through a series of formalins, alcohols, clearing agents, and paraffin. Embeds tissues and prepares paraffin blocks for cutting on rotary microtome. Attaches cut tissues on specially prepared microslides and clears paraffin from tissue. Obtains tissue slides by surgical, cytological, or autopsy number. Submits finished tissue slides to the pathologist along with pertinent clinical data received from originating agency and gross examination by the pathologist. Performs special stains and procedures.
2.2. Performs duties at autopsies. Serves as technical assistant at autopsies. Assists pathologist in opening abdominal, pleural, and cranial cavities; examining various organs; and procuring and handling specimens from these organs. Prepares remains for transfer to mortuary, to include cleaning and closing all incisions. Labels and stores autopsy specimens until pathologist makes final examination prior to fixing, embedding, and staining.
2.3. Maintains histopathology records and instruments. Maintains complete records of all surgical, cytological, and autopsy specimens, to include filing and storing of paraffin blocks and stained tissue slides by accession number. Prepares and ships blocks, slides and diagnostic reports to various military and civilian medical facilities. Maintains all surgical and autopsy instruments, to include sharpening and cleaning microtome blades, knives, scissors, and chisels.
2.4. Performs quality assurance. Evaluates current and new procedures for implementation and effectiveness. Monitors specimen handling, cutting, and staining quality; and equipment and controlled substances inventory. Assists in maintaining accreditation standards.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: methods of fixing, staining, embedding, and cutting all types of tissue; properties of various biological stains and reagents; autopsy procedures; equipment maintenance; and medical terminology, ethics, and administration.
3.2. Education. For entry into this specialty, completion of high school courses in algebra and chemistry is mandatory. Completion of high school courses in biology, zoology, and other basic sciences is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 4T032. Completion of a basic medical laboratory course.
3.3.2. 4T052. Completion of a histopathology course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 4T052. Qualification and in possession of AFSC 4T032. Also, experience performing tests in histopathology.
3.4.2. 4T072. Qualification and in possession of AFSC 4T052. Also, experience performing and supervising histopathology tests and activities.
3.5. Other. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*, is mandatory.

AFSC 4T073, Craftsman **Apprentice AFSC 4T033**
AFSC 4T053, Journeyman **Helper AFSC 4T013**

CYTOTECHNOLOGY

1. Specialty Summary. Performs cytological analyses of specimens consisting of body fluids, tissue scraping, fine needle aspirations, and exfoliated tissues from body cavities and surfaces. Related DoD Occupational Subgroup: 311.

2. Duties and Responsibilities:
2.1. Performs examinations and tests. Examines cytologic smears to detect pre-malignant and malignant disease and other histological changes of the uterine cervix and of other biologic sites. Determines typical and atypical cells through the systematic microscopic examination of slides. Stains cytological preparations for determining hormone levels, sex chromatin bodies, and intracellular inclusions. Examines body fluids to determine appropriate cytopathology. Prepares smears, cell blocks, and microporous filters. Differentiates between malignant cells and those cells that reflect inflammatory reactivity and degeneration. Interprets cytologic changes occurring as a consequence of pregnancy, medication, irradiation, and other physiologic change. Recognizes bacterial, fungal, and viral infections and parasitic infestations. Refers all abnormal gynecological and nongynecological findings to the cytopathologist for review.
2.2. Maintains cytology records and equipment. Supervises cytology service operations, including quality assurance and quality control programs, and equipment maintenance, supplies, fixatives, and staining preparations, together with accurate and timely records completion and reports submission. Monitors compliance with accreditation standards.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: staining and screening cytology specimens; normal, atypical, and abnormal cells from female genital tract and other body sites; medical terminology, ethics, and administration; routine equipment maintenance; and accreditation standards.
3.2. Education. For entry into this specialty, completion of 60 college semester hours, to include 20 semester hours in biological sciences, is mandatory.
3.3. Training. For award of AFSC 4T033, completion of a cytotechnology course from an accredited school as determined by the Council on Medical Education of the American Medical Association, and as administered by the National Accrediting Agency for Clinical Laboratory Sciences is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 4T053. Qualification in and possession of AFSC 4T033. Also, experience performing specialty tests in cytotechnology.
3.4.2. 4T073. Qualification in and possession of AFSC 4T053. Also, experience supervising and performing specialty tests in cytotechnology.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For retention of AFSC 4T073, successful passage of the American Society of Clinical Pathologists Cytotechnologist Registry Examination.

CEM Code 4U000
AFSC 4U091, Superintendent
AFSC 4U071, Craftsman
Journeyman AFSC 4U051
Apprentice AFSC 4U031
Helper AFSC 4U011

ORTHOTIC

1. Specialty Summary. Manages and directs orthotic laboratory personnel, materiel, equipment, administration, and activities. Constructs, fabricates, assembles, repairs, and adjusts orthopedic orthoses as directed by medical officers; and supervises orthopedic orthoses activities. Related DoD Occupational Subgroup: 304.

2. Duties and Responsibilities:
2.1. Plans and directs enlisted personnel phases of orthotic activities. Evaluates orthotic laboratory requirements for supplies, equipment, and personnel. Ensures local application of policies and procedures as directed. Develops and improves working environment for professional personnel for economy of time and operation. Coordinates orthotic laboratory technical and administrative activities to achieve an integrated rehabilitation program. Coordinates required checks for accuracy and compliance with directives. Responsible for budget management. Consults associate corps chief on policies and procedures affecting orthotic personnel.
2.2. Supervises continuing education. Supervises curriculum and training development for continuing education. Evaluates adequacy of formal and clinical practical phases of training program, and recommends changes.
2.3. Performs orthotic advisory duties. Assists orthopedic physicians regarding types of orthoses needed by patients in clinical situations, in any special problem that may be encountered with proposed orthosis, and in checking completed work with appropriate professional staff member. Researches, evaluates, and reports new orthotic orthoses to the orthopedic staff.
2.4. Constructs, measures, fabricates, and repairs orthopedic orthoses. Constructs orthoses for spinal, lower and upper limbs, casts and corrects shoes as prescribed by orthopedic physician. Fabricates spinal, lower and upper limb, and feet orthoses from thermosetting and thermoplastic plastics. Adjusts orthoses to ensure proper fit. Repairs and refits worn or broken orthotic orthoses in same manner as original construction.
2.5. Constructs orthopedic orthoses. Cuts and fashions supports and straps. Pads, polishes, fits, and adjusts assembled orthosis to patient. Measures, fabricates, and repairs plastic orthoses.
2.6. Rebuilds and modifies stock shoes. Receives instructions from orthopedist on corrective shoe pattern. Takes measurements of all foot parts. Removes portion of shoes to install corrective orthosis. Uses various pads and cushions to compensate for differences in leg length. Constructs and install wedges, elevating shoe parts to relieve pain in metatarsal joints. Attaches orthopedic heel to stock shoes for patients with deformed gait. Selects and installs stock arch supports and adjusts to fit. Restores shoe to original appearance as close as modifications will permit.
2.7. Makes plaster impressions of body parts to be fitted. Receives instructions from orthopedist concerning desired therapeutic effects to be achieved. Wraps wet plaster bandage around parts to be fitted to form cast. Marks surface outline of bone nerve, muscle, and blood vessel points of part on wet plaster cast, employing knowledge of anatomy to ensure orthosis will be correctly fitted. Removes cast from body parts when plaster is set, and fills cast with plaster mixture to make positive impression of part.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: fundamental, functional and orthotic anatomy, physiology, psychology, medical terminology, medical ethics, medical materiel and supply, using and maintaining orthotic laboratory equipment; welding, fine metal working, molding thermoplastic and thermosetting plastics, leatherwork; medical administration, and records administration.
3.2. Education. For entry into this specialty, completion of high school courses in biology and chemistry is desirable.
3.3. Training. For award of AFSC 4U031, completion of a basic orthopedic orthosis course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 4U051. Qualification in and possession of AFSC 4U031. Also, experience in functions such as fabricating, adjusting, and repairing orthopedic orthoses.
3.4.2. 4U071. Qualification in and possession of AFSC 4U051. Also, experience performing or supervising functions such as fabricating and repairing orthoses.
3.4.3. 4U091. Qualification in and possession of AFSC 4U071. Also, experience managing functions such as operating orthotic laboratory activities.
3.5. Other. Not used.

CEM Code 4V000
AFSC 4V090, Superintendent
AFSC 4V071*, Craftsman

Journeyman AFSC 4V051*
Apprentice AFSC 4V031*
Helper AFSC 4V011*

OPTOMETRY
(Changed 30 Apr 96)

1. Specialty Summary. Performs and manages visual screening tests and assists in patient treatment. Processes eyewear prescriptions for military spectacles. Performs and manages optometry clinic activities. Manages and directs optometry service personnel, materiel, and equipment. Supervises technical and administrative activities of optometry services. May perform duties in ophthalmology. Related DoD Occupational Subgroup: 323.

2. Duties and Responsibilities:
2.1. Supervises optometry services. Assists the health care provider in the examination and treatment of patients by performing visual tests or procedures. Orders and dispenses military spectacles. Fits patients with spectacles and instructs patients on contact lens procedures. Assists aircrew members in aviator contact lens and night vision goggle program. Assists flight personnel in the occupational vision program. Records patient case history, conducts visual screening tests such as visual acuity, cover test, pupillary testing, color vision, depth perception, visual field charting, and tonometry for analysis and interpretation. Instills approved ophthalmic drugs.
2.2. Manages clinic resources. Determines requirements for supplies, equipment, and personnel. Develops and maintains a working environment to provide timely, economical, and operational support. Reviews budget and manages optometry activities. Performs periodic maintenance and calibration checks on clinic diagnostic equipment.
2.3. Manages optometry administrative services. Coordinates technical and administrative activities of optometry services to ensure effective and efficient visual programs. Reviews reports and records for accuracy and compliance. Reports findings and service's activities. Develops and evaluates training in the clinic environment and recommends changes. Establishes or recommends optometry standards, regulations, policies, or procedures to ensure quality patient care in a safe, efficient, and effective optometry environment.
2.4. Performs ophthalmic functions. Prepares patients and performs as special surgical assistant in all types of ophthalmic surgery. Administers ophthalmic drops and ointments, applies ocular dressings, performs suture removal, and obtains eye cultures. Performs general ophthalmic procedures in preparing preoperative and postoperative patients. Takes ophthalmic photographs and prepares injectable ophthalmic anesthetics and antibiotics.

3. Specialty Qualifications:
3.1. Knowledge. The following knowledge is mandatory for award of the AFSC indicated:
3.1.1. 4V0X1/X1A. Ocular anatomy; ophthalmic medications; visual physiology, optics; use and maintenance of ophthalmic instruments and testing equipment; ophthalmic and medical regulations; medical terminology; optometric technology; asepsis; ocular referrals and emergency medical treatment; patient transportation; medical ethics; medical administration; and medical service organization and function.
3.1.2. 4V0X1A. Surgical instruments and equipment, ophthalmic injectable medications, anesthetic solutions, and ocular disorders.
3.2. Education. For entry into this specialty, completion of high school courses in algebra, geometry, trigonometry, physics, biology, anatomy, or physiology is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 4V031. Completion of a basic optometry course.
3.3.2. 4V031A. Completion of the resident (Phase 1) Air Force surgical course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 4V051/51A. Qualification in and possession of AFSC 4V031/31A. Also, experience in caring for and treating optometry patients and in operating and maintaining ophthalmic equipment such as lensometers, vision screening instruments, visual field measuring instruments, tonometers, and fitting optical and ophthalmic devices.
3.4.2. 4V071/71A. Qualification and in possession of AFSC 4V051/51A. Also, experience performing or supervising ophthalmic functions such as caring for and treating patients, operating ophthalmic testing equipment, and fitting optical and ophthalmic devices.
3.4.3. 4V090. Qualification and in possession of AFSC 4V071/71A. Also, experience managing optometry or ophthalmology activities.

3.5. Other. The following are mandatory as indicated:
3.5.1. For entry, award, and retention of AFSCs 4V0X1/X1A:

3.5.1.1. Vision corrected to at least 20/30 in each eye.
3.5.1.2. No detectable central scotoma in either eye.
3.5.2. For entry into suffix A, prior qualification in and possession of AFSC 4V051/71.

4. * Specialty Shredouts

Suffix	*Portion of AFS to Which Related*
A	Ophthalmology

Attachment 33

DENTAL CAREER FIELD (4Y)

INTRODUCTION
(CHANGED 30 APR 95)

The Dental Career Field encompasses functions involved in operating dental facilities and paraprofessional dental care. This career field includes dental administration, dental health services, limited treatment of oral tissues, fabricating prosthodontic appliances, and serves as auxiliaries to dental officers in treating patients.

Excluded from this career field are functions of operating medical facilities and paraprofessional medical care of authorized personnel. These functions are included in the Medical Career Field (4X). The following is a complete listing of AFSCs for Dental Career Field.

DENTAL (4Y)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
4Y011 Dental Assistant 4Y012 Dental Lab	4Y031 Dental Assistant 4Y032 Dental Lab	4Y051 Dental Assistant 4Y052 Dental Lab	4Y071 Dental Assistant 4Y072 Dental Lab	4Y090 Dental	4Y000 Dental

CEM Code 4Y000 **Superintendent AFSC 4Y090**

DENTAL
(Changed 30 Apr 95)

1. Specialty Summary. Assists the Dental Squadron Commander (DSC) in overall management and operation of dental activities. Related DoD Occupational Subgroup: 330.

2. Duties and Responsibilities:
2.1. Manages dental assistant and laboratory activities. Reviews correspondence, reports, and records for accuracy. Develops, coordinates, and implements administrative and ancillary training programs.
2.2. Inspects and evaluates dental activities. Inspects and evaluates practices and procedures used throughout the dental service. Reports deficiencies and outstanding accomplishments to the DSC. Interprets inspection findings and recommends corrective actions. Consults and coordinates with the DSC for improving dental service procedures. Institutes corrective action to ensure adequacy and compliance.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of budgeting, general dental procedures, and administration of dental service activities.
3.2. Education. Not used.
3.3. Training. Not used.
3.4. Experience. For award of AFSC 4Y090, qualification in and possession of AFSC 4Y071 or 4Y072 is mandatory. Also, experience is mandatory in functions such as managing dental assistance or laboratory functions.
3.5. Other. Not used.

AFSC 4Y071, Craftsman **Apprentice AFSC 4Y031**
AFSC 4Y051, Journeyman **Helper AFSC 4Y011**

DENTAL ASSISTANT
(Changed 30 Apr 95)

1. Specialty Summary. Performs paraprofessional tasks and oral hygiene duties. Supervises dental assistant functions. Related DoD Occupational Subgroup: 330.

2. Duties and Responsibilities:
2.1. Assists dental officer with patient treatment. Receives patient, examines dental record, and prepares patient for treatment. Adjusts dental chair, and selects and arranges instruments and medications. Takes and records blood pressure. Assists in managing emergency procedures. Retracts tissues and maintains clear operating field. Prepares syringe for injection of anesthetics. Prepares materials for making impressions and restoring defective teeth. Records entries in individual dental records indicating oral cavity condition and treatment accomplished.
2.2. Performs dental health duties. Performs oral prophylaxis and scaling procedures using dental hand instruments and oral hygiene aids. Applies anticariogenic agents and materials. Polishes restorations and instructs patients in dental health maintenance. Assists in planning, developing, and conducting comprehensive dental health programs.
2.3. Exposes and processes dental radiographs. Adjusts radiographic machine, places film in proper position, and exposes intraoral film. Places patient in proper position for extraoral radiograph and exposes film. Processes, labels, and mounts film. Duplicates dental radiographs. Practices and enforces accepted radiation safety standards.
2.4. Engages in general dental duties. Follows infection control procedures and guidelines. Cleans, sterilizes, and sharpens dental instruments. Tests sterilizing equipment. Cleans, lubricates, and makes minor adjustments to dental equipment. Performs daily inspection and user maintenance of dental equipment. Practices and enforces accepted safety standards.
2.5. Performs dental administrative and materiel duties. Maintains dental health records, filing systems, and publications. Reviews correspondence, reports, and records for accuracy. Develops, manages, and conducts self-assessment and hazard communication and dental training programs. Performs dental materiel functions related to procurement, custodial responsibilities, and budgeting, maintaining, and disposing of dental supplies and equipment.
2.6. Inspects and evaluates dental activities. Inspects and evaluates administrative and paraprofessional practices employed in the dental service. Reports deficiencies and outstanding accomplishments to base dental surgeon. Interprets inspection findings and recommends corrective action. Consults and coordinates with Dental Squadron Commander for improving administrative and paraprofessional procedures. Institutes corrective action to ensure adequacy and compliance.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: oral and dental anatomy; fundamentals of physiology; dental therapeutics; sterile techniques; emergency dental care; oral hygiene; dental materials; instruments; dental treatment room procedures; medicines; systemic diseases; oral prophylaxis techniques; dental health programs; infection control procedures; dental administration; budgeting; equipment maintenance requirements; and physical properties of dental materials.
3.2. Education. For entry into this specialty, completion of high school with courses in biology and chemistry is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 4Y031. Completion of a basic dental assistant course.
3.3.2. 4Y071. Completion of the advanced dental assistant course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 4Y051. Qualification in and possession of AFSC 4Y031. Also, experience in functions such as taking dental radiographs, maintaining dental equipment, performing oral prophylaxis procedures, and assisting dental officer in patient treatment.
3.4.2. 4Y071. Qualification in and possession of AFSC 4Y051. Also, experience performing and supervising functions such as taking dental radiographs, maintaining dental equipment, performing oral prophylaxis procedures, and assisting dental officer in patient treatment.
3.5. Other. The following are mandatory as indicated:
3.5.1. For duty in, and award of this AFSC, a minimum age of 18 years.
3.5.2. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards.*

AFSC 4Y072, Craftsman **Apprentice AFSC 4Y032**
AFSC 4Y052, Journeyman **Helper AFSC 4Y012**

DENTAL LABORATORY
(Changed 30 Apr 95)

1. Specialty Summary. Fabricates and repairs dental and maxillofacial prostheses and appliances. Inspects dental laboratory equipment and supervises dental laboratory activities. Related DoD Occupational Subgroup: 331.

2. Duties and Responsibilities:
2.1. Performs procedures to fabricate and repair complete dental prostheses, fixed and removable partial dental prostheses, and individual crowns, inlays, pontics, splints, stabilizers, and space maintainers. Uses precious and nonprecious metals, acrylic resins, and porcelain as basic materials.
2.2. Supervises dental laboratory administration tasks and equipment. Maintains dental laboratory records. Prepares reports on laboratory activities. Requisitions, stores, and issues supplies. Inspects equipment and performs minor maintenance. Reports defective equipment or utilities for corrective action. Accounts for precious metals expended. Inspects and evaluates administrative and technical procedures. Furnishes deficiency reports and outstanding accomplishments to Dental Squadron Commander. Interprets inspection findings and recommends corrective action. Consults and coordinates with dental surgeon for improving procedures. Institutes corrective measures, and maintains follow-up action to ensure adequacy and compliance.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: oral anatomy and physiology; inorganic chemistry; metallurgy fundamentals; dental laboratory technology; dental material physical and chemical properties; dental laboratory equipment and maintenance; sterile techniques; and administration.
3.2. Education. For entry into this specialty, completion of high school with courses in biology and chemistry is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 4Y032. Completion of a basic dental laboratory course.
3.3.2. 4Y072. Completion of the advanced dental laboratory course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 4Y052. Qualification in and possession of AFSC 4Y032. Also, experience fabricating prosthodontic restorations including fixed gold and porcelain fused to metal, and denture and orthodontic appliance fabrications.
3.4.2. 4Y072. Qualification in and possession of AFSC 4Y052. Also, experience performing and supervising functions such as fabricating and repairing dental prostheses and appliances.
3.5. Other. The following are mandatory for entry into this specialty:
3.5.1. Prior qualification in and possession of AFSC 4Y051 or 4Y071.
3.5.2. Normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.

Attachment 34

PARALEGAL CAREER FIELD (5J)

INTRODUCTION

The Paralegal Career Field encompasses functions relating to military justice, including court reporting, administrative boards reporting, accident and collateral investigations, depositions, and other legal proceedings; conducting legal services for commanders and Air Force members as authorized by Congress relating to civil law; preparing and maintaining legal documents under the direct supervision of Air Force attorneys in compliance with American Bar Association Standards; investigating claims filed for and against the Air Force; and investigation and trial assistance provided to defense attorneys in support of USAF trial judiciary. The following is a complete listing of AFSCs for the Paralegal Career Field.

PARALEGAL (5J)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
5J011 Paralegal	5J031 Paralegal	5J051 Paralegal	5J071 Paralegal	5J091 Paralegal	5J000 Paralegal

CEM Code 5J000
AFSC 5J091, Superintendent
AFSC 5J071, Craftsman
Journeyman AFSC 5J051
Apprentice AFSC 5J031
Helper AFSC 5J011

PARALEGAL
(Changed 31 Oct 96)

1. Specialty Summary. Manages and performs legal functions not prohibited by statute and the Lawyers' Manual on Professional Conduct. Performs paraprofessional and legal research functions under the supervision of a judge advocate in connection with civil law, military justice, and claims activities. Supervises administration of legal services and court-reporting activities. Related DoD Occupational Subgroup: 512.

2. Duties and Responsibilities:
2.1. Plans, organizes, and directs legal services personnel in the areas of military justice, claims, civil law, and court-reporting activities. Establishes standards and evaluates completed actions to determine accuracy, content, and compliance with governing directives and statutes. Performs paraprofessional duties advising clients on civil law, claims, and military justice matters.
2.2. Processes Article 15 actions, and summary, special, and general courts-martial records. Ensures proper compliance with the Manual for Courts-Martial (MCM) and the Uniform Code of Military Justice (UCMJ) on all military justice actions. Processes claims for or against the military. Conducts investigations, researches laws and directives, and prepares final recommendations for disposition. Interviews and renders legal assistance to military members under the supervision of a judge advocate.
2.3. Examines completed courts-martial records and Article 15 actions. Reviews completed claims files for conformance with pertinent laws and regulations. Prepares input data for the Armed Forces Claims Information Management Systems and the Automated Military Justice Analysis and Management System II. Performs office administrative tasks.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: typewriter and microcomputer operation; UCMJ and MCM; preparing and processing claims; English grammar and composition; arithmetical computations; functional organization of a military legal office; interviewing techniques and knowledge of legal procedures concerning military courts and boards; legal terminology and interpretations; research and utilization of legal publications and reference files; civil law matters; Air Force organization and administration; and office management.
3.2. Education. For entry into this specialty, completion of high school with courses in business arithmetic and commercial law, and completion of college level courses in English comprehension, math, and computers is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 5J031. Completion of a basic paralegal course.
3.3.2. 5J071. Completion of the provisional paralegal course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 5J051. Qualification in and possession of AFSC 5J031. Also, experience in general office management and preparing and processing courts-martial and other military justice actions or claims for and against the United States Government.
3.4.2. 5J071. Qualification in and possession of AFSC 5J051. Also, experience supervising and performing paralegal paraprofessional duties such as processing claims and military justice actions, civil law, contract law, and environmental law.
3.4.3. 5J091. Qualification in and possession of AFSC 5J071. Also, experience managing paralegals in paraprofessional duties such as processing cases in military justice, claims, civil law, contract law, and environmental law.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty:
3.5.1.1. Prior qualification in any AFSC at the 5-skill level (3-skill level if no 5-skill level exists) or higher.
3.5.1.2. Ability to type at a minimum rate of 25 words per minute (WPM).
3.5.1.3. No previous convictions by courts-martial; punishment under the provisions of Article 15, UCMJ; or convictions by a civilian court except for minor traffic violations and similar infractions.

Attachment 35

AIRMAN CHAPLAIN SERVICE SUPPORT CAREER FIELD (5R)

INTRODUCTION
(CHANGED 31 OCT 94)

The Airman Chaplain Service Support Career Field provides comprehensive support of wing level ministry. Air Force policy directives require the Chaplain Service to provide religious support to military members and dependents during peacetime, combat operations, contingencies, and exercises. Duties include providing essential support to Air Force chaplains' pastoral and religious responsibilities, and as members of chaplain readiness teams. Chaplain service support personnel serve in the Air Force Chaplain Service as enlisted, nonclergy members who are trained to understand religious sensitivities and support distinctive ministry needs of the pluralistic military community. The following is a complete listing of AFSCs for the Airman Chaplain Service Support Career Field.

CHAPLAIN SERVICE SUPPORT (5R)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
5R011 Chaplain Service Support	5R031 Chaplain Service Support	5R051 Chaplain Service Support	5R071 Chaplain Service Support	5R091 Chaplain Service Support	5R000 Chaplain Service Support

CEM Code 5R000
AFSC 5R091, Superintendent
AFSC 5R071, Craftsman

Journeyman AFSC 5R051
Apprentice AFSC 5R031
Helper AFSC 5R011

CHAPLAIN SERVICE SUPPORT
(Changed 31 Oct 94)

1. Specialty Summary. Manages support of Air Force chaplain service activities to provide a well integrated wing ministry to facilitate a transition from peacetime to combat operations. Activities include support of worship and religious rites, visitation, counseling, religious education, and lay organizations. Serves as support members on Chaplain Readiness Teams (CRT) during combat operations, emergencies, deployments and exercises. Administers resources, logistics, and automated systems. Related DoD Occupational Subgroup: 561.

2. Duties and Responsibilities:
2.1. Organizes, and directs chaplain service support activities. Determines funds, facility, equipment, supply, and security requirements for religious programs and activities. Reviews and coordinates host-tenant support agreement requirements. Develops chaplain service manpower requirements. Uses crisis management skills to identify counseling needs, establish counseling priorities, and make referrals when a chaplain is not available. Safeguards privileged information according to Rule 503 of the Military Rules of Evidence. Prepares religious accouterments, facilities, and equipment for worship services and chapel programs. Organizes, trains, and coordinates with the laity to support religious programs. Analyzes participation data to determine trends, effectiveness, and efficiency of religious programs and activities. Operates automated systems to prepare correspondence, reports, and presentations. Coordinates chaplain service activities with military and civilian religious organizations. Maintains public relations materials and visual information resources. Ensures chaplain service personnel are correctly postured, equipped, trained, and exercised to support readiness requirements.
2.2. Serves as support member on CRTs during combat operations, emergencies, exercises, and deployments. Develops chaplain service contingency support plans. Supervises activation and operation of the CRT control center. Obtains transportation, communications, and equipment for the CRT. Assesses needs and formulates plans to provide worship, rites, counseling, and visitation during contingencies operations. Provides spiritual triage and temporary comfort to casualties until a chaplain is available. Uses knowledge of religious practices to obtain emergency ministrations in the absence of the chaplain. Coordinates requirements for religious rites and counseling with medical and mortuary affairs personnel. Responds to aircraft crash sites, hostage situations, causality collection points, evacuation and deployment centers, and areas of need to support chaplain service team members. Provides briefings on religious customs and culture. Performs visitation with chaplains to facilitate ministry. Develops support for stewardship, social outreach, and humanitarian programs appropriate to host communities. Publicizes availability of religious programs and worship services to deployed personnel. Protects and secures CRT resources. Provides personal security for noncombatant chaplains.
2.3. Reviews, inspects, and evaluates chaplain service operations. Monitors implementation and application of religious programs and procedures. Identifies, measures, and evaluates trends that impact religious programs and activities. Initiates corrective actions, and develops or revises procedures to improve effectiveness and eliminate deficiencies. Assists in resolving complex issues involving the free exercise of religion in the military community. Interprets and advises chaplain and laity on policies, and establishes procedures.
2.4. Analyzes financial requirements and determines funding sources. Advises chaplains and laity on availability of funds. Prepares, manages, and maintains appropriated fund budgets and records. Prepares and processes requests for contract resource leaders and religious program materials. Operates automated chaplain fund accounting system. Prepares and maintains chaplain fund accounts. Advises on design and development of religious facility modification projects.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: world religions, concepts of religious pluralism in the Air Force, and faith group requirements; principles of interpersonal relationships, interviewing techniques, and crisis intervention skills; inspection and evaluation procedures; appropriated fund resource management, chaplain fund management, and religious facility management; communications and computer resource security; and personnel readiness, war planning, and mobilization procedures.
3.2. Education. For entry into this specialty, completion of courses in English composition, accounting, computer operations, world religions, and human behavior is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. AFSC 5R031. Completion of a basic chaplain service support course is mandatory.
3.3.2. AFSC 5R071. Completion of an advanced chaplain service support course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:

3.4.1. 5R051. Qualification in and possession of AFSC 5R031. Also, experience in religious program and CRT support, and resource management procedures.
3.4.2. 5R071. Qualification in and possession of AFSC 5R051. Also, experience managing readiness operations; supervising or performing functions such as planning and inspecting chaplain service support activities; and managing resources.
3.4.3. 5R091. Qualification in and possession of AFSC 5R071. Also, experience organizing and managing chaplain service support activities.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty:
3.5.1.1. No history of emotional instability, personality disorder, or other unresolved mental health problems.
3.5.1.2. No record of conviction for any major offenses, or sexual-, larceny-, theft-, or assault-related serious offenses, listed in AFI 36-2002, *Regular Air Force and Special Category Accessions*.
3.5.1.3. Certification by the senior chaplain and noncommissioned officer in charge that the individual has been interviewed and is acceptable for entry.
3.5.2. For award of AFSC 5R031, ability to type or keystroke at a minimum rate of 20 WPM.
3.5.3. For award of AFSC 5R051, ability to type or keystroke on a keyboard at a minimum rate of 35 wpm.

Attachment 36

CONTRACTING CAREER FIELD (6C)

INTRODUCTION

The Contracting Career Field encompasses the purchasing of equipment, supplies, services, and construction through negotiation or formal advertising methods or both. This field involves soliciting bids; preparing, processing, awarding, and administering contractual documents; maintaining records of obligations, bid deposits, and miscellaneous purchasing transactions; and providing for contract repair services. Contracting tasks also include recognizing, coding, interpreting, and using automated products; providing input and making analysis of output generated by the base contracting automation system; and inspecting and evaluating contracting activities. The following is a complete listing of AFSCs for the Contracting Career Field.

CONTRACTING (6C)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
6C011 Contracting	6C031 Contracting	6C051 Contracting	6C071 Contracting	6C091 Contracting	6C000 Contracting

CEM Code 6C000
AFSC 6C091, Superintendent
AFSC 6C071, Craftsman
Journeyman AFSC 6C051
Apprentice AFSC 6C031
Helper AFSC 6C011

CONTRACTING

1. Specialty Summary. Manages, performs, and administers purchasing and contracting functions for commodities, services, and construction. Uses base contracting automation system (BCAS) to prepare, process, and analyze transactions and products. Performs as an Air Force contracting officer and adviser. Related DoD Occupational Subgroup: 551.

2. Duties and Responsibilities:
2.1. Organizes purchase request data and advises users. Determines proper procurement method. Determines availability of funds, and reviews justification for sole source or brand name purchasing. Counsels users on purchasing matters. Provides purchase request status. Prepares BCAS documents, processes transactions, and maintains files.
2.2. Plans and schedules contracting activities. Sets procedures and advises on preparing and processing negotiated and sealed bid purchases. Analyzes contracting statistical data. Resolves issues with bidders affecting contract negotiations and administration. Interprets and explains government procedures and regulations. Analyzes and reviews contemplated award actions. Obtains data on marketing trends, supply sources, and trade information. Maintains qualified bidders' list. Coordinates with customers on acceptability of requirements. Develops and manages contingency contracting program.
2.3. Processes negotiated purchase actions. Solicits proposals and quotes commodities or services. Compares prices to determine validity of proposed price. Checks capabilities and responsiveness of bidders submitting proposals or quotations. Applies judgment to resolve controversial issues such as individual bargaining by mail, telephone, or conference; most desirable type of contract; and requirement for government furnished property, machines, tools, or facilities. Ensures negotiation requirements are satisfied. Employs small purchase procedures. Prepares memoranda of negotiation.
2.4. Accomplishes sealed bid procedures. Obtains competitive sealed bids. Ensures bid solicitations are synopsized and publicized. Prepares bid abstracts and reviews bids for responsiveness and compliance. Recommends rejection of bids not conforming to requirements, and cancellation, readvertisement, or negotiation when bids are nonresponsive, show evidence of collusion, or are unreasonable. Determines if bond requirements have been satisfied. Considers records of successful bidders and recommends contract award. Prepares award statement. Prepares and assembles data to be incorporated in contracts. Ensures all aspects of offer and acceptance are complete.
2.5. Inspects and evaluates contracting activities. Evaluates contracting activities such as methods and procedures used in purchasing, judgment exercised in purchasing commodities and services, and adherence to delivery schedules and price. Reviews proposed documents to ensure contractual correctness and compliance with directives, laws, and statutes. Reviews cost estimates for contract repair services. Prepares and presents studies, correspondence, and briefings. Manages self-inspection program.
2.6. Performs contracting functions. May be appointed as an Air Force contracting officer. Makes decisions on awarding and terminating contracts; substitutions or changes resulting in amendments to contractual agreements; disputes; cases involving default; requirements for government furnished facilities; base contract repair management procedures; and recommends action. Determines applicability of contract clauses and special provisions. Monitors contractor progress, and advises on contract requirements and limitations. Conducts site visits to determine adequacy of labor law compliance control. Interviews employees to determine if they are working according to their payroll classifications and are being paid according to minimum wage determinations. Analyzes need for, and issuance of, show-cause and cure notices. Administers contracts and prepares reports. Ensures maximum repair costs are not exceeded without specific authority. Trains quality assurance evaluators. Chairs or participates in contract review committee.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: pricing techniques, market trends, supply sources, business or industrial practices, production distribution, and marketing factors contributing to prices of items, equipment, materials or services; and bookkeeping, policies, laws, and directives governing purchasing.
3.2. Education. For entry into this specialty, it is desirable to possess a baccalaureate degree; or have completed 24 semester hours in business related subjects, such as accounting, business finance, law, contracts, purchasing, economics, industrial management, marketing, quantitative methods, and organization and management; or have passed an examination approved by the Secretary of Defense to demonstrate skills, knowledge, or abilities comparable to that of the 24 semester hours listed above; or have at least 10 years of experience (as of 1 October 1991) in acquisition positions (Government or Industry) or in similar positions in which the individual obtains experience directly relevant to the field of contracting.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 6C031. Completion of the apprentice contracting specialist course.
3.3.2. 6C091. Completion of:

3.3.2.1. Management of Defense Acquisition Contracts (Basic) (8D-4320{JT});
3.3.2.2. Principles of Contract Pricing (QMT 170 {JT});
3.3.2.3. Government Contract Law (PPM 302 {JT}); and
3.3.2.4. One of the following: Management of Defense Acquisition Contracts (Advanced) (8D-F12{JT}); Advanced Contract Administration (PPM304{JT}); or Quantitative Techniques for Cost and Price Analysis (QMT345{JT}). (***NOTE:*** The Defense Acquisition University Catalogue lists all approved equivalent courses.)
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 6C051. Qualification in and possession of AFSC 6C031. Also, experience in functions such as assisting and performing duties involved in small purchase procedures; negotiating; preparing invitations for bids and requests for proposal; review and evaluation of bids, quotations, or proposals; recommending award; preparing contractual documents; or contract administration.
3.4.2. 6C071. Qualification in and possession of AFSC 6C051. Also, experience in functions such as contracting for commodities, services, or contract administration.
3.4.3. 6C091. Qualification in and possession of AFSC 6C071. Also, experience in managing functions such as preparing purchase instruments, evaluating bids and proposals, negotiating, or preparing and administering contractual instruments.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, ability to communicate effectively in writing.
3.5.2. For entry, award, and retention of these AFSCs:
3.5.2.1. Ability to speak distinctly.
3.5.2.2. Never been convicted by courts-martial or never have received nonjudicial punishment for dereliction in the performance of duties involving contracting activities, or larceny or misappropriation of government funds or property.

Attachment 37

FINANCIAL CAREER FIELD (6F)

INTRODUCTION

The Financial Career Field involves:

Receiving, disbursing, and accounting for public funds; appropriation and expense, cost, working capital, and real property accounting, including reporting and analyzing costs of programs and operations; formulating, executing, and analyzing financial programs; and examining and verifying all Air Force financial and management operations.

Collecting, processing, recording, controlling, analyzing, and interpreting special and recurring reports, statistical data, and other information pertaining to personnel, training, supply, aircraft, costs, operations, equipment, facilities, maintenance, organization, programs, progress, and related subjects under conditions ranging from normal operations to actual conflict. It also covers conducting comparative analysis and preparing analytical summaries for use in managing command resources, including personnel, materiel, time, and money.

Excluded from this career field are the functions involved in maintaining supply records and accounting for requesting, receiving, and issuing Air Force equipment and supplies. The following is a complete listing of AFSCs for the Financial Career Field.

FINANCIAL (6F)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
6F011 Financial Management	6F031 Financial Management	6F051 Financial Management	6F071 Financial Management	6F091 Financial Management	6F000 Financial
6F111 Financial Analysis	6F131 Financial Analysis	6F151 Financial Analysis	6F171 Financial Analysis	6F191 Financial Analysis	

CEM Code 6F000
AFSC 6F091, Superintendent
AFSC 6F071, Craftsman
Journeyman AFSC 6F051
Apprentice AFSC 6F031
Helper AFSC 6F011

FINANCIAL MANAGEMENT
(Changed 31 Oct 97)

1. Specialty Summary. Performs, supervises, manages and directs financial management activities. Performs customer service. Maintains financial records for pay and travel transactions. Maintains accounting records and prepares reports. Determines fund availability and propriety of claims. Maintains cash and check issue accountability. Prepares commitment and obligation documents; and, payment and collection vouchers. Related DOD Occupational Subgroup: 541.

2. Duties and Responsibilities:
2.1. Provides customer service and processes pay and travel transaction documents. Prepares, verifies, computes and processes pay transactions for military and civilian personnel. Processes, verifies, audits travel claims, estimates travel costs, determines fund availability, and performs follow-up on outstanding travel orders for travelers.
2.2. Processes disbursement and collection transactions. Disburses and collects cash and negotiable instruments from certified vouchers. Prepares accountability records and reports for domestic and foreign operations.
2.3. Maintains appropriated funds accounting records and files. Records, reconciles, and verifies entries based on accounting documents and automated records. Prepares and certifies payment and collection vouchers.
2.4. Provides customer service and accounting liaison for installation level organizations, vendors, and the Defense Finance and Accounting Service. Reconciles funding authorities with accounting records.
2.5. Schedules, prepares, verifies, and submits financial accounting reports.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: financial management, interpreting and applying federal financial management statutes, Comptroller General decisions, financial management directives, antideficiency procedures; and government accounting principles and techniques.
3.2. Education. For entry into this specialty, completion of high school with courses in mathematics, computer operation and application are desirable.
3.3. Training. The following training is mandatory as indicated:
3.3.1. For award of AFSC 6F031, completion of the basic financial management course.
3.3.2. For award of AFSC 6F071, completion of the advanced financial management course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 6F051. Qualification in and possession of AFSC 6F031. Experience in financial management functional areas such as customer service, document and voucher processing, computation, systems, funds control, reporting, reconciliation and follow-up.
3.4.2. 6F071. Qualification in and possession of AFSC 6F051. Experience in performing or supervising functional areas of financial management such as: customer service, document and voucher processing, computation, systems, funds control, reporting, reconciliation and follow-up.
3.4.3. 6F091. Qualification in and possession of AFSC 6F071. Experience managing financial management functions.
3.5. Other. The following are mandatory for entry, award and retention of this AFSC:
3.5.1. No record of conviction by a civilian court for offenses involving larceny, robbery, wrongful appropriation, or burglary.
3.5.2. Never received nonjudicial punishment under the Uniform Code of Military Justices (UCMJ) or been convicted by military courts martial for offenses involving acts of larceny, wrongful appropriation, robbery, or burglary as delineated in UCMJ Articles 121, 122, 129, and 132.

CEM Code 6F000
AFSC 6F191, Superintendent
AFSC 6F171, Craftsman
Journeyman AFSC 6F151
Apprentice AFSC 6F131
Helper AFSC 6F111

FINANCIAL ANALYSIS

1. Specialty Summary. Serves as financial advisor to commanders and resource managers. Supervises and performs financial management functions. Compiles, analyzes, and summarizes statistical, accounting, and performance data. Performs, reviews, and assists with economic, cost, and financial analyses. Prepares and executes budgets and financial plans. Related DoD Occupational Subgroup: 558.

2. Duties and Responsibilities:
2.1. Plans, organizes, directs, and controls financial analysis activities. Analyzes, interprets, and summarizes significant information, and relates data to programs and mission objectives. Evaluates deviations from programs to determine causes and effects on mission. Identifies areas requiring attention and improvement. Establishes controls and references to provide access to historical data. Interprets and supplements financial analysis directives. Prepares and publishes financial analysis reports and studies.
2.2. Analyzes economic, cost, accounting reports, and financial data, to identify trends for evaluating effectiveness and efficiency of Air Force activities. Develops and compiles factors for improved planning, programming, and budgeting. Analyzes data to determine cost and financial performance of various programs and activities. Evaluates performance to financial program objectives, and recommends appropriate adjustments.
2.3. Inspects and evaluates financial analysis activities. Inspects financial analysis activities to ensure effective facilities and personnel use in accomplishing assigned mission. Conducts reviews to comply with directives and regulations.
2.4. Performs, reviews, and assists with economic, cost, and financial analyses. Collects data, estimates costs, and documents benefits of current programs to support economic, cost, and financial analyses, and presents results. Reviews analyses performed in other functional areas. Provides assistance to staff activities conducting cost and economic analyses. Analyzes inspection reports pertaining to financial activities, and initiates or recommends action to correct deficiencies.
2.5. Prepares budgets and financial plans. Develops procedures for obtaining fund requirement estimates from organizations for existing and proposed programs. Provides budget call instructions to organizations, and assists financial managers to obtain valid requirements. Develops cost factors for use in budget preparation. Prepares narrative justifications to support fiscal requirements.
2.6. Performs financial execution functions. Reviews financial data for accuracy, and resolves irregularities. Receives, reconciles and distributes funding authorities. Examines funding and reprogramming actions to determine financial implications. Assists accounting staff and operating organizations develop subsidiary accounts required to manage financial plans. Reviews appropriated reimbursement program status. Interprets and applies directives, policies, and procedures pertaining to appropriated and nonappropriated funds and budgetary processes.
2.7. Administers the Air Force Internal Management Control Program.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: Air Force organization; reporting requirements, analysis techniques (accounting, mathematical, and statistical), and accounting systems (appropriated and nonappropriated); statistical management and comparative analysis techniques: economic, cost, and financial analyses policies, procedures, and regulations; management principles and controls, including cost, performance, and financial methods; collecting and analyzing financial and other data using statistical techniques; accounting and budgeting principles; visual, oral, and written presentation techniques; Air Force missions, programs, and programming procedures and methods; and basic computer applications.
3.2. Education. For entry into this specialty, completion of high school or general educational development equivalency with courses in algebra is mandatory.
3.3. Training. For award of AFSC 6F131, completion of a basic financial analysis course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 6F151. Qualification in and possession of AFSC 6F131. Also, experience performing tasks such as economic, cost, or financial analyses; preparing budgets and budgetary reports; and developing drafts of presentations.
3.4.2. 6F171. Qualification in and possession of AFSC 6F151. Also, experience performing or supervising tasks such as economic, cost, or financial analyses.
3.4.3. 6F191. Qualification in and possession of AFSC 6F171. Also, experience managing financial analysis functions and activities.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, prior qualification in any AFSC at the 5-skill level (3-skill level if no 5-skill level exists).

3.5.2. For entry, award, and retention of these AFSCs, ability to communicate effectively in writing and to speak distinctly.
3.5.3. For award and retention of AFSCs 6F131/51/71/91/00, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

Attachment 38

SPECIAL INVESTIGATIONS CAREER FIELD (7S)

INTRODUCTION

The Special Investigations Career Field encompasses functions involved in performing the counterintelligence investigative mission within the Air Force, including investigations pertaining to sabotage, espionage, subversive activities, treason, sedition, personnel disaffection, security violations, antiterrorism, and other related matters; conducting special investigations of major criminal violations of the Uniform Code of Military Justice and applicable federal statutes, including fraud and conspiracy matters with emphasis on procuring and disposing property; conducting personnel background investigations in overseas areas to support the Defense Investigative Service; and conducting investigations of a "special inquiry" nature that may be requested or directed by competent authority.

Excluded from this career filed are functions of air intelligence to prevent strategic, tactical, or technological surprise and to support planning and conducting air operations. These functions are included in the Intelligence Career Field. The following is a complete listing of AFSCs for the Special Investigations Career Field.

SPECIAL INVESTIGATION (7S)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
7S011 Special Investigations	7S031 Special Investigation		7S071 Special Investigation	7S091 Special Investigation	7S000 Special Investigation

CEM Code 7S000
AFSC 7S091, Superintendent

Craftsman AFSC 7S071
Journeyman AFSC 7S031
Helper AFSC 7S011

SPECIAL INVESTIGATIONS

1. Specialty Summary. Conducts criminal, fraud, counterintelligence, personal background, and technical services investigations and special inquiries. Manages special investigations activities. Related DoD Occupational Subgroup: 832.

2. Duties and Responsibilities:
2.1. Plans and conducts offensive investigative activities. Interviews witnesses and interrogates persons suspected of committing major violations of the Uniform Code of Military Justice. Administers oaths to and obtains signed statements from persons interviewed and interrogated. Conducts crime scene searches, preserves evidence, and requests criminal laboratory analyses. Participates in surveillances. Conducts lineups and fingerprints suspects. Investigates suspected fraud and violations of public trust, writes investigative reports, uses human information sources to detect criminal and fraudulent activities. Provides testimony at court proceedings, briefs base level command officials and coordinates investigative matters of mutual interest with local, state, federal, and foreign law enforcement agencies.
2.2. Directs and investigates counterintelligence matters. Investigates allegations of espionage, sabotage, treason, sedition, and terrorist acts. Conducts security suitability investigations, protective service operations, and concerning special counterintelligence matters. Conducts defensive briefings on techniques used by hostile intelligence services and subversive groups directed at or affecting the Air Force and national security.
2.3. Inspects and evaluates special investigative activities. Conducts investigations to determine personal history data accuracy and whether any unfavorable information exists regarding character, loyalty, discretion, integrity, or credit reputation.
2.4. Performs specialized technical operations to support criminal, fraud, and counterintelligence investigations. Conducts technical security surveys and briefs key officials. Performs preventative and corrective maintenance on equipment to ensure operational readiness.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: special investigative policy, procedures, and techniques concerning criminal, fraud, counterintelligence, personnel background, and technical security services.
3.2. Education. For entry into this specialty, completion of high school or general educational development equivalency with courses in accounting and a foreign language is desirable.
3.3. Training. For award of AFSC 7S031, completion of the Special Investigators Course at the United States Air Force Special Investigations Academy is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 7S071. Qualification in and possession of AFSC 7S031. Also, experience performing or supervising functions such as investigations or inquiries.
3.4.2. 7S091. Qualification in and possession of AFSC 7S071. Also, experience managing special investigative activities such as criminal, fraud, counterintelligence, or technical services.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, qualification according to AFI 36-2110, *Assignments*.
3.5.2. For entry, award, and retention of these AFSCs:
3.5.2.1. Ability to speak and write clearly and distinctly.
3.5.2.2. Qualification to bear firearms according to AFI 31-207, *Arming and Use of Force by Air Force Personnel*.
3.5.2.3. For award and retention of these AFSCs, a favorable background investigation and certification by the Commander, Air Force Office of Special Investigations.

Attachment 39

ADDITIONAL MANDATORY REQUIREMENTS FOR AFSC ENTRY

Introduction

1. This attachment establishes minimum requirements for:
1.1. Aptitude:
1.1.1. Mechanical, administrative, general, or electronic (MAGE) aptitude scores derived from the Armed Forces Vocational Aptitude Battery or Armed Forces Classification Test.
1.1.2. Strength aptitude codes are reflected in Column X and identify strength standards required for entry into each AFSC. Strength aptitude is defined in AFI 36-2101, *Classifying Military Personnel (Officers and Airmen)* and testing procedures for retrainees are outlined in AFI 36-2626, *Airman Retraining Program*.

Code	Demonstrated by Weight Lift of
E	Unknown
F	less than 40 lbs
G	40 lbs
H	50 lbs
J	60 lbs
K	70 lbs
L	80 lbs
M	90 lbs
N	100 lbs
P	110 lbs

1.2. Physical profile series factor (PULHES), as defined in AFI 48-123, *Medical Examination and Standards.*
1.3. Other AFSC entry requirements or restrictions:
1.3.1. Column M reflects AFSCs authorized for use without shredouts.
1.3.2. Column N reflects AFSCs not open to non-United States citizens. AFSCs identified in this column are open to United States nationals.
1.3.3. Column O reflects AFSCs currently not authorized for award to enlisted women.
2. Refer to paragraph 3 of individual specialty descriptions for additional AFSC entry requirements.

MANDATORY AFSC ENTRY REQUIREMENTS

		APTITUDE					PHYSICAL PROFILE						OTHER		
AFSC	**Note(s)**	**M**	**A**	**G**	**E**	**X**	**P**	**U**	**L**	**H**	**E**	**S**	**M**	**N**	**O**
1A0X1	3			53		K				1				X	
1A1X1B	1, 3	51			33	K				1				X	
1A1X1C	3			55		K				1				X	
1A2X1	3			55		K				1				X	
1A3X1	3				67	G				1				X	
1A4X1	3			53		G				1				X	
1A5X1	3				67	G				1				X	
1C0X1			45			G	3	3	3	2	3	3		X	
1C0X2			45			G	3	3	3	2	3	3		X	
1C1X1	3			53		G				1				X	
1C2X1	3			43		K				1				X	X
1C3X1				48		G	2	2	2	1	2	1		X	
1C4X1				48		K	1	1	1	1	2	1		X	X
1C5X1A				53		G	2	2	2	1	1	1		X	
1C5X1B				53		G	2	2	2	1	1	1		X	
1C5X1C				53		G	2	2	2	1	1	1		X	
1C6X1	3				58	G				1				X	
1N0X1				55		G	3	3	3	2	3	1		X	
1N1X1				64		G	3	3	3	2	3	1		X	
1N2X1				52		G	3	2	3	1	2	1		X	
1N3XXX				69		G	3	3	3	1	2	1		X	
1N4X1				58		G	3	3	3	2	2	1		X	
1N5X1				69		G	3	3	3	1	3	1		X	
1N6X1				58		G	3	3	3	1	2	1		X	
1S0X1				53		G	3	2	2	2	2	2			
1T0X1				53		N	1	1	1	1	2	1		X	
1T1X1				30		K	2	2	2	2	3	1		X	
1T2X1				43		K	1	1	1	1	1	1		X	X
★1W0X1	2			64	50	H	2	3	1	2	2	1	X	X	
★1W0X1A				64		H	2	3	1	2	2	1		X	
2A0X1A					67	G	3	3	3	1	3	2		X	
2A0X1B					67	J	3	3	3	1	3	2		X	
2A1X1					72	G	3	3	3	1	3	2		X	
2A1X2					67	J	3	3	3	1	3	2		X	
2A1X3					67	J	3	3	3	1	3	2		X	
2A1X4					67	G	3	3	3	1	3	2		X	
2A1X7					67	N	3	3	3	1	3	2		X	
2A3X1A					67	L	3	3	3	1	3	2		X	
2A3X1B					67	L	3	3	3	1	3	2		X	
2A3X1C					67	L	3	3	3	1	3	2		X	
2A3X2A					67	K	3	3	3	1	3	2		X	
2A3X2B					67	K	3	3	3	1	3	2		X	
2A3X2C					67	K	3	3	3	1	3	2		X	
2A3X3A		51				L	3	3	3	1	3	2		X	
2A3X3B		51				L	3	3	3	1	3	2		X	
2A3X3C		51				L	3	3	3	1	3	2		X	
2A3X3D		51				L	3	3	3	1	3	2		X	
2A3X3E		51				L	3	3	3	1	3	2		X	
2A3X3F		51				L	3	3	3	1	3	2		X	

AFSC	Note(s)	APTITUDE					PHYSICAL PROFILE						OTHER		
		M	A	G	E	X	P	U	L	H	E	S	M	N	O
2A3X3G		51				L	3	3	3	1	3	2		X	
2A3X3H		51				L	3	3	3	1	3	2		X	
2A3X3Z		51				L	3	3	3	1	3	2		X	
2A4X1					67	J	3	3	3	1	3	2			
2A4X2					67	J	3	3	3	1	3	2		X	
2A4X3					67	J	3	3	3	1	3	2		X	
2A5X1A		51				L	3	3	3	1	3	2		X	
2A5X1B		51				L	3	3	3	1	3	2		X	
2A5X1C		51				L	3	3	3	1	3	2		X	
2A5X1D		51				L	3	3	3	1	3	2		X	
2A5X1E		51				L	3	3	3	1	3	2		X	
2A5X1F		51				L	3	3	3	1	3	2		X	
2A5X1G		51				L	3	3	3	1	3	2		X	
2A5X1H		51				L	3	3	3	1	3	2		X	
2A5X2A		57				N	3	3	3	1	3	2		X	
2A5X2B		57				N	3	3	3	1	3	2		X	
2A5X2C		57				N	3	3	3	1	3	2		X	
2A5X3A					67	K	3	3	3	1	3	1		X	
2A5X3B					67	K	3	3	3	1	3	1		X	
2A5X3C					67	J	3	3	3	1	3	1		X	
2A6X1B		57				G	3	3	3	1	3	2		X	
2A6X1C		44				J	3	3	3	1	3	2		X	
2A6X1D		44				J	3	3	3	1	3	2		X	
2A6X1E		44				J	3	3	3	1	3	2		X	
2A6X2	2	51			33	H	3	3	3	1	3	2		X	
2A6X3		57				N	3	3	3	1	3	1		X	
2A6X4		51				J	3	3	3	1	3	2		X	
2A6X5		57				K	3	3	3	1	3	2		X	
2A6X6	2	45			60	K	3	3	3	1	3	2		X	
2A7X1		51				G	3	3	3	1	3	2		X	
2A7X2				43		G	3	3	3	1	3	3		X	
2A7X3		51				J	3	3	3	1	3	2		X	
2A7X4		44				J	3	3	3	1	3	3		X	
2E0X1					67	H	3	3	3	2	3	2		X	
2E1X1					67	J	3	3	3	2	3	3		X	
2E1X2					67	H	3	3	3	2	3	2		X	
2E1X3	4				67	J	3	3	3	2	3	3		X	
2E1X4					67	H	3	3	3	2	3	3		X	
2E2X1					67	J	3	3	3	2	3	3	X	X	
2E2X1A					67	J	3	3	3	2	3	3		X	
2E2X1B					67	J	3	3	3	2	3	3		X	
2E2X1C					67	J	3	3	3	2	3	3		X	
2E2X1D					67	J	3	3	3	2	3	3		X	
2E3X1					67	J	3	3	3	2	3	1		X	
2E4X1					67	G	3	3	3	2	3	3		X	
2E6X1		51				M	1	1	1	2	2	1		X	
2E6X2		51				L	3	3	1	2	3	1		X	
2E6X3					46	K	1	1	1	2	2	1		X	
2E8X1					67	G	3	3	3	2	3	1		X	
2F0X1	2	51		39		K	1	1	1	1	2	1		X	
2G0X1			61			G	3	3	3	2	3	3		X	
2M0X1					67	G	2	2	2	1	1	1	X	X	

AFSC	Note(s)	APTITUDE					PHYSICAL PROFILE						OTHER		
		M	A	G	E	X	P	U	L	H	E	S	M	N	O
2M0X1A					67	K	2	2	2	1	1	1		X	
2M0X1B					67	G	2	2	2	1	1	1		X	
2M0X2		51				N	2	2	2	1	1	1	X	X	
2M0X2A		51				N	2	2	2	1	1	1		X	
2M0X3					33	G	2	2	2	1	1	1	X	X	
2M0X3A					50	K	2	2	2	1	1	1		X	
2P0X1					67	J	3	3	3	2	3	2		X	
2R0X1				53		G	3	3	3	2	3	3			
2R1X1				43		H	3	3	3	2	3	3			
2S0X1	1		45	43		J	3	3	3	3	3	3			
2S0X2			51			G	3	3	3	3	3	3			
2T0X1			40			J	3	3	3	2	2	3			
2T1X1		44				H	3	3	3	1	2	3			
2T2X1	2	51	32			J	3	3	3	1	2	3			
2T3X1		51				J	3	3	3	2	3	3			
2T3X2A		44				G	3	3	3	2	3	3			
2T3X2B		44				G	3	3	3	2	3	3			
2T3X4		51				J	3	3	3	2	3	3			
2T3X5		57				J	3	3	3	2	3	3			
2T3X7			45			G	3	3	3	2	3	3			
2W0X1	1	61		55		J	3	3	3	2	3	1		X	
2W1X1C	1	61			46	K	3	3	3	1	3	1		X	
2W1X1D	1	61			46	K	3	3	3	1	3	1		X	
2W1X1E	1	61			46	K	3	3	3	1	3	1		X	
2W1X1F	1	61			46	K	3	3	3	1	3	1		X	
2W1X1H	1	61			46	K	3	3	3	1	3	1		X	
2W1X1K	1	61			46	K	3	3	3	1	3	1		X	
2W1X1L	1	61			46	K	3	3	3	1	3	1		X	
2W1X1Z	1	61			46	K	3	3	3	1	3	1		X	
2W2X1		61				G	3	3	3	2	3	1		X	
3A0X1			32			G	3	3	3	2	3	3			
3C0X1				60		G	3	3	3	2	3	1		X	
3C0X2				60		G	3	3	3	2	3	3		X	
3C1X1			45			J	2	2	2	1	2	1		X	
3C1X2				43		G	3	3	3	2	3	3		X	
3C2X1					67	H	3	3	3	2	3	1		X	
3C3X1				58		G	3	3	3	2	3	3		X	
3E0X1					33	N	1	1	1	2	2	1			
3E0X2	2	57			43	K	3	3	3	2	2	3			
3E1X1	1	51			33	N	3	3	3	2	2	3			
3E2X1		44				N	3	3	3	2	2	1			
3E3X1		51				K	3	3	3	2	2	3			
3E4X1		51				J	3	3	3	2	2	3			
3E4X2		51				G	3	3	3	2	2	3			
3E4X3				39		J	3	3	3	2	2	3			
3E5X1				48		G	3	3	3	2	2	3			
3E6X1				43		G	3	3	3	2	2	3			
3E7X1				39		N	1	1	1	2	2	1		X	
3E8X1	2	61		60		H	3	3	3	1	3	1		X	
3E9X1				58		H	2	2	2	2	2	1		X	
3H0X1				69		G	3	3	3	2	3	3		X	
3M0X1				30		H	3	3	3	3	3	3			

AFSC	Note(s)	APTITUDE					PHYSICAL PROFILE						OTHER		
		M	A	G	E	X	P	U	L	H	E	S	M	N	O
3N0X1				69		G	3	3	3	3	3	3			
3N0X2				69		H	3	3	3	3	3	3			
3N1X1X	1		27	30		G	3	2	1	2	3	1			
3N2X1	1		27	30		G	3	2	1	2	3	1			
3P0X1				35		K	2	2	2	1	2	1		X	
3P0X1A				35		K	2	2	2	1	2	1		X	
3P0X1B		61				K	2	2	2	1	2	1		X	
3S0X1			45			G	3	3	3	2	3	3			
3S0X2				43		G	3	3	2	2	3	3			
3S1X1	1		45	43		G	3	3	3	3	3	1			
3S2X1				56		G	3	3	3	3	3	3			
3U0X1				64		G	3	3	3	2	3	3			
3V0X1				43		G	3	3	3	2	3	3		X	
3V0X2				43		H	2	2	2	2	1	1		X	
3V0X3				58		J	2	2	2	2	1	1		X	
4A0X1				43		G	3	3	3	2	3	3			
4A1X1				43		H	3	3	3	3	2	3			
4A2X1					67	H	2	2	2	3	3	1			
4B0X1				48		H	3	3	3	3	2	3			
4C0X1				53		G	2	2	2	2	3	1			
4D0X1				43		G	3	3	3	2	3	2			
4E0X1				43		H	3	3	3	2	2	2			
4F0X1				43		H	1	1	1	2	2	1			
4H0X1				43		G	3	3	3	3	3	3			
4J0X1				53		G	2	2	2	2	2	1			
4J0X2				48		G	1	1	1	2	2	1			
4M0X1				43		G	3	3	3	2	3	3			
X4N0X1				43		K	2	2	2	1	2	1			
4N0X1				43		H	3	3	3	2	2	3	X		
4N0X1A				43		H	3	3	3	2	2	3			
4N0X1B				43		H	3	3	3	2	2	1			
4N1X1				43		G	3	3	2	3	3	3	X		
4N1X1B				43		G	3	3	2	3	3	3			
4N1X1C				43		G	3	3	2	3	3	3			
4N1X1D				43		G	3	3	2	3	3	3			
4P0X1				43		H	2	2	2	2	2	1			
4R0X1				43		G	3	3	3	2	3	3			
4R0X1A				43		G	3	3	3	2	3	3			
4R0X1B				43		H	3	3	3	2	3	3			
4R0X1C				43		H	3	3	3	2	3	3			
4T0X1				58		G	3	3	3	3	3	3			
4T0X2				43		G	3	3	3	3	3	3			
4T0X3				43		G	3	3	3	3	3	3			
4U0X1				43		G	3	3	3	3	3	3			
4V0X1				53		G	3	3	3	2	2	3	X		
4V0X1A				53		G	3	3	3	2	2	3			
4Y0X1				43		G	3	3	3	2	3	3			
4Y0X2				64		G	2	1	2	2	2	1			
5J0X1				50		G	3	3	3	3	3	3			
5R0X1	1		40	43		G	3	3	3	2	3	3			
6C0X1				70		G	3	3	3	2	3	3			
6F0X1				55		G	3	3	3	3	3	3			

AFSC	Note(s)	APTITUDE					PHYSICAL PROFILE						OTHER		
		M	A	G	E	X	P	U	L	H	E	S	M	N	O
6F1X1				53		G	3	3	3	3	3	3		X	
7S0X1				43		G	2	2	2	2	2	1		X	
8A000	3		32			G				1				X	
8B000				48		G	1	2	1	2	2	1			
8B100				48		G	1	2	1	2	2	1			
8C000						G	3	3	3	2	2	3			
8D000				69		G	3	3	3	2	2	1		X	
8E000				30		G	3	3	3	3	3	3			
8F000	1		45	58		G	3	3	3	2	3	1			
8G000				30		G	1	1	1	1	1	1		X	
8J000				35		K	2	2	2	2	2	1			
8M000			32			K	2	1	1	2	2	1		X	
8P000				44		N	1	1	1	2	2	1		X	
8P100						G	3	3	3	3	3	3		X	
8R000				30		G	1	1	1	3	2	1			
8S000		44				H	2	2	2	2	2	1			
8S100				30		G	2	2	2	1	2	1			
8T000				30		G	2	2	2	2	2	1			
9A000															
9A100															
9A200															
9A300															
9C000						G	3	3	3	3	3	3			
9D000				45		G	3	3	3	3	3	3			
9E000						G	3	3	3	3	3	3			
9G000						G	3	3	3	3	3	3			
9J000															
9L000				69		G	3	3	3	1	2	1		X	
9P000															
9R000															
9S100	2	89			81	K	2	2	2	2	2	1		X	
9T000															
9T100															
9T200															
9U000															
9U100															

NOTES:

1. Dual aptitude (or)
2. Dual aptitude (and)
3. See entry specialty description for physical requirements.
4. AFSC J2E1X3 is not authorized for award to enlisted women.

Attachment 40

SPECIAL EXPERIENCE IDENTIFIERS

Introduction

1. Special Experience Identifiers (SEI). The SEIs in this attachment identify special experience and training not otherwise identified within the personnel data system (PDS). SEIs complement the assignment process but are not substitutes for AFSCs, CEM codes, prefixes, suffixes, SDIs, RIs, personnel processing codes, and professional specialty course codes. They are established when identifying experience or training is critical to the job and person assignment match, and no other identification is appropriate or available. SEIs permit rapid identification of a resource already qualified to meet unique circumstances, contingency requirements, or management needs. They provide a means to track individuals and identify positions requiring or providing unique experience or training that otherwise would be lost. SEIs may be used to better distribute personnel and optimize the job and person match insofar as possible.

2. Authorized AFSCs. Unless indicated otherwise, AFSCs and CEM codes listed as authorized for use with SEIs refer to the basic AFSC plus all shredouts. All authorized skill levels of the basic AFSC are listed, including 9-skill levels and CEMs. If an AFSC is followed by an asterisk, then the SEI is authorized for use with the basic AFSC only; it is not authorized for use with suffixes of that AFSC.

3. SEI Structure. The SEI code is composed of three numeric characters (three alphanumeric characters for Air Intelligence Agency SEIs and described in attachment 41). Individual characters within the codes have no specific meaning. Most SEIs are authorized for award with specific AFSCs; some are authorized with any AFSC.

4. Establishing SEIs. Requests to establish, delete, or revise SEIs must be submitted according to the instructions in paragraph 5, page 4, this manual.

5. SEI Field in the PDS. PDS space limitations restrict the number of SEIs that may be concurrently recorded in an airman record to one with the control AFSC (CAFSC), five with the primary AFSC, five with the 2AFSC, four with the 3AFSC, three with the 4AFSC, and one in the general SEI area. Computer edits ensure the AFSC-SEI combinations are valid. The general area is used for SEIs authorized with any AFSC.

6. Computer-Generated SEI Award Notification (AFCSM 36-699, volume 1, *Personnel Data Systems*). The SEI is designated with the CAFSC when an airman is assigned to a unit manpower document (UMD) position identified with an SEI. If the UMD position is not identified with a specific SEI, any authorized SEI may be designated with the CAFSC when it is known that an individual working in that UMD position will gain special experience. After experience and training requirements have been satisfied, computer suspense notification will be provided as a reminder to award the SEI. Award suspense is performed for numeric SEIs only.

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SPECIAL EXPERIENCE IDENTIFIERS (SEIs)
See Introduction for explanation of authorized AFSCs (paragraph 2)

MISCELLANEOUS SEIs

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
★001	Arms Control	Requires 12 months of experience and commander's recommendation.	2AXXX 2M090 2M071 2M072 2M073 2R1X1 2W071 2W1XX 2W2XX 3A0X1 3P0X1 3V072
002	Defense Intelligence College (DIC) Graduate	Requires graduation from the DIC Senior Enlisted Intelligence Program (SEIP) or the Post Graduate Intelligence Program (PGIP).	1NX00 1NX7X 1NX9X 8D000
004	Orderly Room/Unit Administration	Used to identify Health Services Management personnel and positions (AFSC 4A031/51/71) in Medical Treatment Facility orderly rooms that will convert to AFSCs 3S031/51/71. Specific guidance and instructions on the application and award of this SEI will be provided via message by HQ AFPC/DPPAC.	3S031/51/71/90 4A031/51/71
009	Wholesale Logistics Experience	Member must have completed a 3 year career broadening program in an AFMC or Defense Logistics Agency (DLA) activity. SEI is awarded by HQ AFPC/DPAAD only.	2S000 2S071 2S090
★011	Modeling and Simulation (M&S) (Created 31 Oct 98)	Requires 15 months of experience in a valid M&S position, and recommendation by the M&S activity director and unit commander.	3A0XX 3C0XX 3S0XX 3S2X1
013	Data Formatting Equipment Operator	Requires 6 months of experience and supervisor's recommendation.	2AXXX 2PXXX
014	AFOSI Technical Services	Requires completion of AFOSI Basic Technical Training, OSITEC8200-000 (PDS code ZQY), plus certification by HQ AFOSI Technical Services Program Division.	7SXXX
015	Special Technical Operations	Requires recommendation and certification by the Joint Staff.	1C3XX 1C5XX 1C6XX 2SXXX 3AXXX 3C000 3C2XX
016	Quality Air Force (QAF) Advisor	Requires a minimum of 100 hours of quality related training by a professional body such as the Air Force Quality Institute or American Society for Quality Control; one year of experience as a Quality Advisor to an organizational commander when more than 50 percent of individual's time is spent working quality issues or 6 months of experience when 100 percent of time is spent working quality issues; and wing or equivalent commander recommendation. ***NOTE***: Individuals previously qualified in SEI 092 - Air Force Quality Advisor may be awarded 016 based on their prior qualification.	1XXXX 2XXXX 3XXXX 4XXXX 5XXXX 6XXXX 7XXXX 8XXXX 9XXXX

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
017	Quality Air Force (QAF) Facilitator	Requires graduation from a QAF facilitator course; facilitate or cofacilitate minimum of two process action teams, includes quality councils, other teams such as natural work teams, and semipar groups in formal courses at the Air Force Quality Institute or other organization-teaching (QAF); successfully demonstrate facilitation skills from start to finish under mentorship of a QAF qualified facilitator; and possess QAF Facilitator Certificate issued by a wing or equivalent commander. ***NOTE***: Individuals previously qualified in SEI 093 - Air Force Quality Facilitator, may be awarded 017 based on their prior qualification.	1XXXX 2XXXX 3XXXX 4XXXX 5XXXX 6XXXX 7XXXX 8XXXX 9XXXX
018	Quality Air Force (QAF) Instructor	Requires completion of all five formal QAF core courses and determination of proficiency to teach content material; proficiency determination in instructor areas of presentation and platform skills by a QAF Master Instructor; successful evaluation by a QAF Master Instructor, and possess a QAF Instructor Certificate issued by wing or equivalent commander.	
019	Quality Air Force (QAF) Master Instructor	Requires qualification as a QAF Instructor; have successfully taught all QAF core courses (Awareness, QAF Leaders, QAF Team Leader, QAF Facilitator, and QAF Team Member); successful completion of Advanced Instructional Systems course; successful evaluation by a QAF Master Instructor; and possess a QAF master Instructor Certificate signed by the Air Force Quality Institute and wing or equivalent commander.	
022	AN/TSC-107	Requires supervisor's recommendation and either (1) 10 months of experience; or (2) completion of AETC course E3AZR2E153-035 (PDS code 3PM) and 4 months of experience.	2E133/53/73
023	AN/TRC-170 Digital Troposcatter Radio	Requires completion of course E2ASR2E155-014 (PDS code 16T) and 6 months of experience; or 12 months of experience and supervisor's recommendation.	2E000 2E1X1 2E190
024	AN/TYC-39 and/or AN/TTC-39A	Requires completion of course E5ASA29570-000 (PDS code 3KR), E5ASA29570-001 (PDS code 2J9), or E5ASA30554-007 (PDS code 3KT) and 6 months of experience; or 12 months of experience plus supervisor's recommendation.	2E251/71/91
★025	Circuit Card Repair (CCR) Maintenance Technician (Created 31 Oct 98)	Requires completion of the following courses: J4AMF/ASF/AST30000-110 (PDS code 17G), J4AMF/ASF/AST30000-113 (PDS code 17F) , 12 months of experience, and supervisor's recommendation.	2A051A/B 2A071A/B 2A151 2A171 2A152 2A172 2A153 2A173 2A157 2A177 2A351 2A371 2A352 2A372 2A451 2A471 2A452 2A472 2A453 2A473 2A553A/B 2A573A/B 2A652 2A672 2A656 2A676 2P051 2P071 2W151 2W171

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
030	KN-S4100 Digital Telephone Switching System	Requires supervisor's recommendation and either (1) completion of course J5AZA36251-002 (PDS Code OKA) and 6 months of experience, or (2) 12 months of experience.	2E000 2E690 2E6X3
031	Crime Prevention/ Resources Protection	Requires (1) completion of AFIT course WCIPO7A, Crime Prevention Theory, Practice, and Management (PDS code 1F2); (2) 12 months of experience in crime prevention/resources protection duties; and (3) recommendation by the Base Chief of Security Forces.	3P0XX
032	Budget Experience	Requires either (1) 12 months of experience in a budget position; or (2) completion of the advanced budget training course and 6 months of experience in a budget function.	6F000 6F0X1
033	Digital Telephone Switching Systems, Digital Multiplex Switch 100/200 and Meridian Stored Logic 100/200	Requires supervisor's recommendation and either: (1) 12 months of experience; or (2) 6 months of experience and completion of one of the following courses: J3AZR36251-003, Digital Switching Systems Techn (PDS code 65F); J1ASC36251-068, DMS 100/200 Systems Maint (Scope Dial) (PDS code 1GY); J1ASC36251-074, DMS 100 System Translations (Scope Dial) (PDS code 3J4); J1ASC36251-088, Translations (BIDDS) (PDS code 9FX); or J1ASC36251-089 Maint (BIDDS) (PDS code 9FY).	2E000 2E690 2E6X3
035	Forward Area Refueling Point (FARP)	Award requires successful completion of Phase I, II, and III FARP training and completion of Physiological Training; six months of experience and a minimum of 4 FARP missions; successful completion of CDC requirements for AFSC 2F051; Fuels Management Flight Commander's recommendation and squadron commander's certification.	2FXXX
036	Cryotainer Maintenance	Award requires completion of course J3AZR2F051-005 (PDS code DDG), 3 months of experience working in a cryogenics storage function, supervisor's recommendation, and commander's certification.	
037	Cryogenic Fluid Production	Requires completion of Cryogenic Fluid Production course and 3 months of experience working in a cryogenic plant or in production of cryogenic fluid.	
038	STREAMLINER System	Requires 9 months of experience and supervisor's recommendation, or formal training as follows: 3C0XXs course 3AZR29150-003 (PDS code U9V); 2E2X1s - course 3AZR30574-002 (PDS code TDX) or course X3AZR30574-012 (PDS code 6KO).	2E000 2E2X1
039	Aviation Fuels Monitor	Requires completion of 3AZR63150-1, Aviation Fuels Monitor course, C3AZR63150-001 or CAST63150-005, Fuels Quality Control Specialist (PDS code BYP), plus 6 months of experience.	2FXXX
040	Aviation Fuels Accounting	Requires completion of C4AST63150-005, Fuels Accounting, or 3AZR63150-2, Aviation Fuels Accounting (PDS code T3N), plus 6 months of experience.	2FXXX

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
042	Special Planner	Requires completion of a Special Plans course or seminar and practical special plans experience. Adequacy of special plans experience will be determined by the MAJCOM Special Planner and approved by HQ USAF/XOXP.	Any AFSC
043	Rockwell, Collins URG Equipment Maintenance	Requires 12 months of experience and specialized training as required.	2E000 2E190 2E1X3
045	Tactical Air Control System Direct Air Support Center/Air Support Operations Center (TACS DASC/ASOC)	Requires 6 months of experience in either a DASC or ASOC.	Any AFSC
046	Tactical Air Control System Airborne Battlefield Command and Control Center (TACS)	Requires 12 months of experience.	1A3XX 1A4XX 1C5XX 1N000 1N0X1 2A4X2 2A1X3 2A190 2A490
048	Joint Operations Planning System Automated Data Processing (JOPS ADP) User	Requires the following: (1) 18 months of experience in a JOPS position at MAJCOM level or higher; (2) completion of JOPS user course; (3) completion of either the ATC JOPS Executive Orientation course, the ATC JOPS Systems Software Support course, or the JOPS CDTS course; and (4) thorough knowledge of(a) USAF War & Mobilization Plans, Vols I, III, & IV, procedures described in AFI 10-401 and JOPS Vols I through IV, and (b) JOPS ADP modules used in manipulation and analysis of OPLAN data.	2GXXX
049	Joint Operation Planning and Execution (JOPES) Automated Data Processing (ADP) Technician	Requires (1) knowledge of USAF War and Mobilization Plans Volumes I, III, and IV procedures described in AFMAN 10-401, JOPES Volumes I and II; (2) knowledge of JOPES ADP modules used to manipulate and analyze OPLAN data; (3) completion of the Contingency Wartime Planning Course and JOPES course; and (4) 12 months of experience in deliberate and crisis action planning.	1XXXX 2XXXX 3XXXX 4XXXX 5XXXX 6XXXX 7XXXX 8XXXX 9XXXX
050	Contingency Operation/Mobility Planning and Execution System (COMES) Technician	Requires (1) knowledge of USAF War and Mobilization Plans Volumes I, III, and IV procedures described in AFMAN 10-401; (2) knowledge of COMPES modules used in inputting, extracting, manipulating, and analyzing OPLAN data; (3) completion of the Contingency Wartime Planning Course; and (4) 12 months of experience at major command or wing level in deliberate and crisis action planning.	
051	Worldwide Military Command and Control System (WWMCCS) Intercomputer Network (WIN) Operator	Requires (1) knowledge of WIN operations; (2) completion of the WIN course; and (3) 6 months of experience at major command, numbered Air Force, field operating agency, or wing WIN operations.	
052	Theater Battle Management (TBM)	Requires (1) knowledge of TBM command and control system (i.e., CTAPS); (2) completion of the Contingency Wartime Planning Course or Joint Doctrine Air Campaign Course; and (3) 6 months of experience in TBM duties.	

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
053	Ground Control Approach	Requires certification in arrival, arrival assistant, and radar final control, and recommendation by immediate supervisor and commander.	1C1XX
054	Ground Control Approach Watch Supervisor/Senior Controller	Requires qualification as a Watch Supervisor/Senior Controller.	
055	Control Tower Watch Supervisor/Senior Controller		
056	Control Tower	Requires certification in local control, ground control, and flight data, and recommendation by immediate supervisor and commander.	
★057	Seismic Technique	Requires completion of course X3AZR-9S100-018 (PDS Code 50Z), Subsurface Systems Maintenance, X3AZR9S100-016 (PDS Code 50X), Subsurface Analysis; 6 months of experience; and supervisor's recommendation.	RI 9S100
★058	Atmospheric Research Equipment	Requires position qualification in atmospheric research equipment maintenance; 6 months of experience; and supervisor's recommendation.	
★059	Forward Area Technician	Requires completion of course X3AZR9S100-015 (PDS Code 5T0), Special Equipment Maintenance; 6 months of experience; and supervisor's recommendation	
064	Combat Crew Training	Requires 12 months of experience and certification by immediate supervisor and commander.	1A0XX
065	Central Flight Instructor Course Instructor	Requires 12 months of experience, be a graduate of Central Flight Instructor Course, and certification by immediate supervisor and commander.	1A0XX
071	General Purpose Vehicle and Equipment Maintenance	Requires prior qualification in and possession of AFSC 2T470 or 2T4X1/X2 prior to 31 Oct 97. ***NOTE:*** This SEI will be deleted from the airman classification system 31 Oct 99.	2T470 2T4X1/X2
072	Special Purpose Vehicle and Equipment Maintenance	Requires prior qualification and possession of AFSC 2T370 or 2T3X1 or 2T3X2A/B prior to 31 Oct 97. ***NOTE:*** This SEI will be deleted from the airman classification system 31 Oct 99.	2T370 2T3X1 2T3X2A/B
073	KC-135 Boom Operator	Requires 24 months of experience and certification by immediate supervisor and commander.	1A0XX
074	EC/KC-135 Boom Operator	Requires 12 months of experience, must possess SEI 073, and be certified by immediate supervisor and commander.	
075	Alert Facility Manager	Requires 12 months of experience and certification by immediate supervisor and commander.	
076	Upgrade Manager		
★080	Collection Manager	Requires completion of course X50ZG14N4-010 (PDS Code NXY), Principles of Collection Management or equivalent; 6 months of experience; and supervisor's recommendation.	RI 9S100

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
084	Aircraft Flight Test	Requires 12 months of experience in flight test and evaluation of new or improved aircraft systems/sub-systems and recommendation by unit commander.	1AXXX 2AXXX 2E8XX 2PXXX 2S051 2S071 2T251 2W1XX
089	CORONET SPARK	Requires 6 months of experience and supervisor's recommendation. Final approval authority for designation is unit commander.	Any AFSC or CEM Code
★090	Tanker/Airlift Control Element (TALCE)	Requires 9 months of experience in an authorized ALCE position and ALCE commander's recommendation.	1A0XX 1A2XX 1C000 1C0X1 1C0X2 2A000 2A190 2A1X3 2A300 2A4X2 2A590 2A600 2A6X2 2E000 2E190 2E1X3 3E0X0 3E0X2
★095	Operational Test and Evaluation (OT & E)	Requires 24 months of experience as an operational tester assigned to any headquarters or major command operational test activity (OTA) or deputy chief of staff (DCS) responsible for the conduct of OT & E; completion of the Air Force Operational Test and Evaluation Center OT & E Training Course or the Air Force Institute of Technology System 100 (PDS code2RX) or 229 (PDS code TR9) course; and recommendation by the OTA commander or the DCS.	1AXXX 1C000 1C0X2 1C100 1C1X1 1C200 1C2X1 1C300 1C3X1 1C400 1C4X1 1C500 1C5X1 1C600 1C6X1 1NXXX 1SXXX 1T1XX 1T2XX 2A0XX 2A190 2A1X1 2A1X2 2A1X3 2A1X4 2A1X7 2A300 2A390 2A4X1 2A4X2 2A5XX 2A6XX 2A790 2A7X1 2A7X3 2A7X4 2E000 2E0XX 2E1XX 2E2X1 2E3X1 2E4X1 2E690 2E6X2 2E6X3 2E8XX 2FXXX 2GXXX 2M0XX 2RXXX 2SXXX 3CXXX 3P000 3P0X1 3S2XX 8E000 8S100
126	Acquisition Logistics, Level I	Requires Acquisition Logistics Level I certification.	2AXXX 2E0XX 2E1XX 2E2XX 2E3XX 2E4XX 2E6XX 2E8XX 2F0XX 2G0XX 2M0XX 2P0XX 2R100 2R1X1 2S0XX 2TXXX 2WXXX 3C000 3C090 3C0X1
127	Acquisition Logistics, Level II	Requires Acquisition Logistics Level II certification.	2AX00 2AX5X/7X/9X 2EX00 2E051/71/91
128	Acquisition Logistics Level III	Requires Acquisition Logistics Level III certification.	2E190 2E15X/7X 2E251/71/91 2E351/71/91 2E451/71/91 2E60X0 2E65X/7X 2E851/71/91 2F000 2F051/71/91 2G000 2G051/71/91 2M090/00 2M05X/7X 2P000 2P051/71/91 2R100 2R151/71/91 2S090/00 2S05X/7X 2TX00 2TX5X/7X/9X 2WX00 2WX5X/7X/9X 3C090/00 3C051/71

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
		CONTRACTING SEIs	
129	Contracting, Level I	Requires Contracting, Level I certification.	6C0XX
130	Contracting, Level II	Requires Contracting, Level II certification.	6C000 6C051/71/91
131	Contracting, Level III	Requires Contracting, Level III certification.	
132	Communications-Computer Systems, Level I	Requires Communications-Computer Systems Level I certification.	2E000 2E1XX 2E3X1 2E690 2E6X3 2G0XX 2P0XX 3C0XX 3C2XX 3C3XX
133	Communications-Computer Systems, Level II	Requires Communications-Computer Systems Level II certification.	2E000 2E190 2E15X/7X 2E251/71 2E351/71/91
134	Communications-Computer Systems, Level III	Requires Communications-Computer Systems Level III certification.	2E000 2E690 2E653/73 2G000 2G051/71/91 2P000 2P051/71/91 3C090/00 3C05X/7X 3C251/71/91 3C351/71/91
150	Contracting-Staff/Supervision	Requires 12 months of experience in management, control, and accomplishment of the unit contracting mission. This includes staff positions and contracting officer positions involving purchase of supplies, services, and construction in support of local operations. Also requires supervisor's recommendation.	6CXXX
151	Warranted Contracting Officer	Requires 12 months of experience in pre-award, award, and post-award contracting, requiring the possession and exercise of a contracting officer's warrant to effect the purchase of supplies, services, and construction in support of local operations. It includes pricing and warranted contracting officer actions relating to contract termination. Also, requires supervisor's recommendation.	6CXXX
153	Contract Administration	Requires 12 months of experience in pre-award, award, and post-award activities related to the administration of contracts to secure supplies, services, and construction in support of local operations. It includes pre-award surveys, production expediting, and contract status determination and reporting.	6CXXX
		COMMUNICATIONS-ELECTRONICS SEIs	
161	Mission Support System (MSS) & AFMSS	Requires supervisor's recommendation and either (1) 6 months of experience and completion of one of the following courses: E1ASE30650-020 (PDS2E051 JVW), E3AZR-30650-013 (PDS code JVS), E4AST30650-014 (PDS code JVS), E3AZR30650-036 (PDS code LQO), or E4AST-30650-000 (PDS code LQO); or (2) 12 months of experience.	2E051/71 2E151/71 2E152/72 2E153/73 2E154/74 2E251/71 2E351/71 2E451/71 2E6X3 3C251/71
162	Intratheater Imagery Transmission System (IITS)	Requires supervisor's recommendation and either (1) 6 months of experience and completion of one of the following courses: E3AZR30454-048 (PDS code JT2) or E4AST-30454-095 (PDS code J5X); or (2) 12 months of experience.	2E051/71 2E151/71 2E152/72 2E153/73 2E154/74 2E251/71 2E351/71 2E451/71

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
★167	Satellite Technique	Requires completion of course X3AZR9S100-017 (PDS Code 50Y), Atmospheric and Space Systems Analyst; 6 months of experience; and supervisor's recommendation.	RI 9S100
168	WSR - 88D, Next Generation Weather Radar (NEXRAD)	Requires 12 months of experience, satisfactory completion of course E3AZR30351-014 (PDS code M3B), and supervisor's recommendation.	2E000 2E0X1
169	Tactical Weather Radar - TPS-68S	Requires 6 months of experience and supervisor's recommendation.	
170	Andrews Aeronautical Station	Requires completion of required training, 12 months of experience, and supervisor's recommendation.	3C000 3C1X1
174	AN/GPN-22	Requires 12 months of experience and supervisor's recommendation.	2E000 2E0X1
175	TEMPEST Technician	Requires completion of a TEMPEST technician course plus 2 years' additional experience assigned to the AFCOMSEC Center and supervisor's recommendation.	2E000 2E190 2E1X3 2E3X1
176	Theater Battle Management (TBM) Systems Administration and Network Support	Award requires (1) 6 months of experience in uniplexed information and computing (UNIX) operation system, oracle and sybase database administration, structured query language (SQL), and transmission control protocol/internet protocol (TCP/IP) in direct support of systems and network administration for a TBM system; (2) supervisor's recommendation; and (3) commander's certification that member meets criteria. ***NOTE*:** Completion of formal system specific training, e.g. Air Ground Operations School (AGOS) contingency theater automated planning system (CTAPS), AETC global command and control (C2) system (GCCS), or C2 information processing system (C2IPS) system administration courses may be substituted for experience requirement.	3C0X1 3C2X1
177	UNIX System Administrator	Requires 6 months experience as a UNIX system administrator and supervisor's recommendation.	3C0X1 3C0X2 3C090 3C000 3C2X1
178	Digital European Backbone (DEB)	Requires 6 months of experience and supervisor's recommendation.	2E000 2E190 2E1X1
180	AN/MST-T1	Requires 12 months of experience and supervisor's recommendation.	2E000 2E0X1
182	AN/MPS-T1		
187	National Military Command Center Communications-Electronics Systems Maintenance		2E000 2E190 2E1X3 2E1X4 2E2X1

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
190	Bamboo Tree	Requires supervisor's recommendation and (1) 3 years of experience on Bamboo Tree modified equipment, or (2) formal school plus 1 year experience on Bamboo Tree modified equipment.	2E190 2E1X3
★191	AN/TSC-114 Military Airlift Command Airlift Control Element (ALCE) Reaction Communication (MARC) System	Requires supervisor's recommendation and 6 months of experience in an ALCE or fixed or deployable airlift control center working with a AN/TSC-114 MARC system.	2A190 2A1X3 2A4X2 2A6X2 2A590 2E190 2E1X1 2E1X3
193	AN/FYQ-8	Requires 6 months of experience and supervisor's recommendation.	2E000
195	Radar Sensor Operations Maintenance Evaluation		1C500 1C5X1 1W0X1 2E000 2E0X1 2E190 2E2X1 3C0X2 3E5X1 3V0X2
199	AN/GMD-5	Requires supervisor's recommendation and either (1) completion of course C3AZR30250-013 (PDS code 8WM) and 6 months of experience, or (2) 12 months of experience.	2E000 2E190 2E1X2
200	Electronic Installation (EI)	Requires completion of courses AFCC 30XXX-000 (PDS code 8XZ), AFCC EI quality assurance evaluation, certification as EI Team Chief, 6 months of experience after certification, and supervisor's recommendation.	2E000 2E051/71 2E091 2E151/71 2E152/72 2E153/73 2E154/74 2E190 2E251/71/91 2E351/71/91 2E651/71 2E652/72 2E690 2E653/73
202	CEM Quality Control	Requires supervisor's recommendation and either (1) completion of course 3AZR00066 (PDS code RFV) and 6 months of experience, or (2) 12 months of experience.	1C6XX 2E000 2E0X1 2E190 2E1X3 2E1X1 2E1X2 2E1X4 2E2X1 2E3X1 2E4X1 2E6XX 3C000 3C2XX
203	AN/GSC-50 AUTODIN Terminal	Requires supervisor's or commander's certification and either (1) completion of course J1ASC30651-001 (PDS code 24F), course J2ASR30651-019 (PDS code 4S8), or course J3AZR30653-034 (PDS code 7AB) and 6 months of of hands-on experience; or (2) 12 months of of hands-on experience.	2E331/51/71
204	Phase IV or Tactical Shelter Systems (TSS)	Requires completion of formal training on Phase IV or TSS computer systems, 12 months of experience, and supervisor's certification.	2E251/71
205	Strategic Automated Command and Control System (SACCS)	Requires 6 months of experience and supervisor's recommendation.	2E231C/51C 2E271/91
206	Mobile Satellite Communication Systems	Requires 6 months of experience, supervisor's recommendation and completion of formal training. Applicable course by PDS code are: AFSC PDS CODE 2E2X1 65R, 5HW, 75Q 2E4X1 5HW, 3E7, 75Q, 76E Personnel must complete all courses applicable to their respective AFSC before award of this SEI.	2E251/71/91 2E451/71/91

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
207	AN/ARC-96	Requires 6 months of experience and supervisor's recommendation.	1A3XX
208	Global Command and Control Systems (GCCS) Systems Administration and Database Support	Requires completion of one of the following courses: E30AR33S0 007 (PDS 5F4), E30AR33S0 009 Z (PDS 6WB), E30AR33S0 000 (PDS 024), or E30AR33s0 006 (PDS 5EN) and 6 months experience, or 12 months experience; plus supervisor's recommendation.	3C0X1 3C2X1
209	Imagery Systems Maintenance	Requires prior qualification and possession of AFSC 2E5X1 prior to 30 April 1998.	2E1X4
210	AN/FPQ-21	Requires supervisor's recommendation and either (1) completion of course C5AZG30270-000 (PDS code 5XR) and 6 months of experience; or (2) 12 months of experience.	2E000 2E0X1 2E190 2E1X2
219	AN/FPS-77	Requires supervisor's recommendation and either (1) 6 months of experience plus completion of a AN/FPS-77 course provided by a central repair activity; or (2) 12 months of experience.	2E000 2E0X1 2E190 2E1X2
221	AN/FRC-117	Requires 6 months of experience and supervisor's recommendation.	2E000 2E190 2E1X3
225	Range Operations	Requires 12 months of experience in test and evaluation and recommendation by immediate supervisor.	1C551/71/91/00 1C551D/71D
233	Defense Message System (DMS)	Award requires (1) completion of course E3AZR-3C051-024 (PDS 4IS), or completion of all of the following Lockheed Martin contracted courses: T00003X, T00005, T00007, and T00009X or Lockheed Martin instructor versions of these courses (T00004X, T00006, T00008, and T000010X respectively), and (2) 6 months hands-on system administration in direct support of DMS or (3) a minimum of 18 months of hands-on experience; plus supervisor's and commander's recommendation.	3C0X1 3C2X1
239	Combat Crew Communications	Identifies personnel with experience and training in providing communications support to combat aircrews. Requires 12 months of experience with training in combat crew communications, including participation in combat mission folder preparation.	3C000 3C1X1
242	AN/TCC-30	Requires 12 months of experience and supervisor's recommendation.	2E000
243	Commercial Communications	Requires supervisor's recommendation and either (1) 6 months of experience or (2) training at the AFCC Commercial Communications School (CCS) and 3 months of experience.	2E000 2E190 2E1X1 2E6X0 2E6X3 3C000 3C2XX
244	AN/TPN-19	Requires 12 months of experience and supervisor's recommendation.	2E000 2E0X1
246	AN/TPS-43		
248	AN/TSQ-91		2E000 2E2X1
252	"Strawhat" Communications System		2E000 2E3X1
253	TSEC/KW-37		
254	TSEC/KY-9		
256	Airborne Command Post	Requires 12 months of experience and supervisor's recommendation.	1A3XX

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
261	Automatic Digital, Net, Mode V Control Unit	Requires 6 months of experience and supervisor's recommendation.	2E000 2E3X1
262	AUTODIN Switching Center	Requires 12 months of experience and supervisor's recommendation.	2E000 2E190 2E1X1 2E2X1 2E3X1
263	Automatic Secure Voice System		2E000 2E3X1
269	COMSEC Accounting	Requires 6 months of experience and supervisor's recommendation.	1A3XX 3C0XX
270	ECCM/ECM	Requires completion of an AETC or equivalent course in electronic countermeasures/counter-countermeasures plus 6 months of experience and supervisor's recommendation.	1A4XX 1C551/71 1C551D/71D
272	Electronic Telephone Switching Systems	Requires 6 months of experience and supervisor's recommendation.	2E000 2E3X1
274	AN/FTC-31 Switch	Requires completion of course E5AZA36252-000 (PDS code KCJ), 12 months of experience, and supervisor's recommendation.	
276	Defense Satellite Communications System (DSCS) Ground Terminals	Requires 18 months of experience on any of the following systems: AN/TSC-54, AN/MSC-46, AN/FSC-78, AN/GSC-49, or AN/GSC-52, plus supervisor's recommendation.	2E000 2E190 2E1X1
277	Tactical Air Control Systems/Combat Control Team	Requires completion of Equipment Proficiency Certification and completion of the unit mobility school, plus supervisor's recommendation.	Any AFSC
282	Technical Evaluation Program (TEP) (SCOPE/CREEK)/ Special Maintenance Team	Requires 12 months of experience and supervisor's recommendation.	2E000 2E0X1 2E190 2E1X1 2E1X2 2E1X3 2E3X1
283	Optical Solar Telescope (AN/FMQ-7)	Requires 12 months of experience and supervisor's recommendation.	2A000 2A190 2A1X1 2E000 2E190 2E1X2
284	Solar Radio Telescope (AN/FRR-95)		2E000 2E190 2E1X2
285	RVR-400	Requires 6 months of experience and supervisor's recommendation.	
286	Global High Frequency (HF) Systems	Requires supervisor's recommendation and either (1) completion of formal training plus 6 months of experience with completion of proficiency training; or (2) 12 months of experience with completion of proficiency training.	2E000 2E190 2E1X3
287	Base Installation Security Systems (BISS)	Requires supervisor's recommendation and either (1) formal training plus 6 months of additional experience; or (2) 9 months of experience.	2E000 2E190 2E1X4
290	Air Weather Service Defense Meteorological Satellite Program (DMSP) Equipment - MARK IV	Requires 12 months of experience and supervisor's recommendation.	2E000 2E4X1
291	Missile Communications System Evaluator/Instructor	Requires 12 months of experience, completion of task qualifications on respective missile communications system, completion of course Y140005, Information Systems Evaluator/Instructor Course (PDS code 77C), and supervisor's recommendation.	2E000 2E151/71 2E153/73 2E190 2E231C/51C/71/91 2E652/72

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
292	Satellite Ground Communications	Requires supervisor's recommendation and either (1) completion of a formal course in the AN/TSC-94/94A or AN/TSC-100/100A plus 6 months of experience, or (2) 12 months of experience.	1C6XX 2E000 2E190 2E1X1 2E1X3 2E4X1
294	Air Weather Service Defense Meteorological Satellite Program (DMSP) Equipment - MARK IIA/MARK III	Requires completion of a DMSP technical training course plus 4 months of additional experience and supervisor's recommendation.	2A000 2A190 2A1X1 2E000 2E4X1
296	CRITICOM Multiplex System (Project LEMONADE)	Requires supervisor's recommendation and either (1) completion of course E3AZR30651-033 (PDS code 5LW) or course E3AZR30651-026 (PDS code UUJ) and 6 months of experience; or (2) 12 months of experience.	2E000 2E3X1
297	Personnel Control Team (PCT) Member	Requires Military Personnel Flight Chief recommendation and (1) completion of all mandatory task performance requirements in the Personnel Support for Contingency Operations (PERSCO) Air For Job Qualification Standard (JQS); (2) completion of all mandatory PERSCO Manpower and Personnel Base level (MANPER-B) operator task performance requirements in the MANPER-B JQS; and (3) 6 months of PERSCO experience after completing task qualification training or be deployed for at least 30 days as a PERSCO team member for a Joint Chiefs of Staff, major command, or exercise deployment operation. ***NOTE***: All JQS qualification training must be completed within 12 months of the date assigned to PERSCO according to AFI 10-215.	3S051/71
299	Manpower and Personnel Base Level (MANPER-B) Operator	Requires Military Personnel Flight Chief recommendation and (1) successful completion of USAF MANPER-B Systems Course, E3AZR3S071-011/ E4AST3S071-009 (PDS code WIM) or an AFPC approved substitute course; and (2) completion of all mandatory task performance requirements in the MANPER-B Air Force Job Qualification Standard. ***NOTE*:** All training must be completed within 12 months of being assigned to Personnel Readiness function or personnel support for contingency operations (PERSCO) MANPER-B position.	3S031/51/71 3S032/52/72
MISCELLANEOUS SEIs (continued) -- See SEIs 002-100			
★300	Technical Order Acquisition Verification Management	Requires 12 months of experience and supervisor's recommendation. Applicable to personnel who have been assigned to AF Materiel Command technical order acquisition/verification positions.	1AXXX 2AXXX 2E0XX 2E1XX 2E2XX 2E3XX 2E4XX 2E8XX 2M0XX 2PXXX 2WXXX 3E8XX 4A2XX
301	Air National Guard Readiness Center (ANGRC)	Requires completion of the ANGRC Contingency Support Staff Training Course.	Any AFSC

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
302	ICBM Technical Engineering Personnel	Requires supervisor's recommendation, 12 months of technical engineering experience at a SAC ICBM unit, and completion of one of the following courses: C3AZR41170A-000(PDS code UT6), C3AZR-41170A-001 (PDS code PYT), C3AZR41170A-002 (PDS code U8Q), C3AZR-31670G-011 (PDS code UT6), C3AZR31670G-006 (PDS code PYT), or C3AZR31670G-010 (PDS code U8Q).	2M0XX
303	Retention Office Manager (ROM)	Requires completion of Retention Office Management (ROM) course YPMEC RT (PDS 3QG).	8R000
304	Military News Editor	Requires completion of Newspaper Editor Course, award of 5 level AFSC, and 6 months of experience as editor of a base newspaper; or 12 months of experience as a base newspaper editor and award of 5 level AFSC. Includes editors of magazines produced at base level or higher who are experienced in overall production, planning, and supervision of magazine publications and possess the same schooling or experience.	3N000 3N090 3N0X1
305	NCO Preparatory Course Instructor	Requires completion of the NCO Preparatory Course Instructor's course, MLMDC 001 (PDS code UOP).	Any AFSC
306	Special Operations Force	Requires 6 months of experience in a Special Operations unit tasked with a counterinsurgency, psychological, or unconventional warfare mission, as defined in AFI 10-1301, *Air and Space Doctrine.*	
★307	Flight Safety (Created 31 Oct 98)	Requires either (1) completion of course L3AZR 1S071-004, Flight Safety NCO course (PDS code 8RH) and 6 months of experience and supervisor's recommendation, or (2) 12 months of experience and supervisor's recommendation.	2A3XX 2A4XX 2A5XX 2A6XX
★308	Base Engine Manager	Requires completion of course C3AZR39270-001 (PDS code 3QV) or course J3AZR2E066-008 (PDS Code T5B). and 6 months of experience in engine manager duties; or 12 months of experience in engine manager duties.	2A300 2A390 2A3X3 2A590 2A5X1 2A5X2 2A600 2A6X1 2R1XX
311	Military Working Dog (MWD) Handler	Requires prior qualification in and possession of AFSC 3P051A, or 3P072A (prior to 31 Oct 97). Award SEI to AFSC 3P0X1 when personnel upgrade from AFSC 3P051A to 3P071.	3P000 3P071/91
312	Combat Arms	Requires prior qualification in and possession of AFSC 3P051B, or, 3P171 (prior to 31 Oct 97). Award SEI to AFSC 3P0X1 when personnel upgrade from AFSC 3P051B to 3P071.	
313	Information Management (IM) Systems	Requires 12 months of experience in microcomputer or shared systems, supervisor's recommendation, and approval by the Chief of Base IM or the major command or separate operating agency Director of IM. Experience must include receiving, assembling, configuring, maintaining, and troubleshooting individual or unit software or hardware.	3A051/71/91/00

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
315	Central NOTAM Facility (CNF)	Requires 12 months of experience and certification by a supervisor.	1C000 1C0X1
320	PMEL Production Scheduler	Requires 6 months of experience.	2R1XX
321	Security Police Investigator	Requires completion of either L5AZA81172-000, Military Police Investigations (PDS code RZ4), or 50BO8200-000, Special Investigator (PDS code 0D8); or one of the following MAJCOM conducted Military Police Investigator (MPI) courses (completed on or after 1 Jul 85): MP-94, 830-85V, or 830-ASI-V5. Also, requires 12 months of experience as a full time security police investigator and recommendation of the base Chief of SP.	3P0X1
322	Information Security Experience	Requires either 1) completion of course L50ZD3193-002 (PDS code SNV) or 2) completion of course L50ZD31P3-007 (PDS code 84B) plus completion of the following DoD Security Institute correspondence courses: DS-1103, DS2121, DS3121, DS33122, DS4121, and DS6100; 12 months experience; and recommendation by the Chief of Security Forces.	3P0XX
323	Electronic Security Systems	Requires completion of one of the following courses: L3AZR81150-008 (PDS code ZMV); L4AST81150-007 (PDS code ZMV); L3AZR81150-012 (PDS code 4FR); L4AST81150-012 (PDS code 4FR); L4AST-81150-011 (PDS code 4FS); or completion of both L4AST81150-001 (PDS code T4A) and L4AST-81150-005 (PDS code YO8), L4AST-81150-008 (PDS code 2K6), L5AST81150-013 (PDS code 4FT), or L6AZS81150-000 (PDS code 4FR).	3P0XX
325	Medical Readiness	Requires minimum grade of E-4 who has attained NCO status; completion of the Medical Readiness Planning course, J3OZR9000-005 (PDS code M15), or Battlefield Medical Operations Planning (BMOP) course B3OZY-9300-003 (PDS code RZM); and 12 months of experience. Approval authority for award of this SEI is MAJCOM or higher. Local medical function will forward the SEI RIP to the MAJCOM for final award certification. ***NOTE***: Individuals who have previously completed the BMOP course and have been in a readiness position for more than one year, are exempt from this requirement.	4XX5X/7X/9X 4XX00
★326	Red Horse Experience	Requires 6 months of experience in Red Horse assignment and commander's recommendation.	2A600 2A6X2 2A7X1 2S000 2S0X1 3A031 3A051/71 3E090 3E000 3E0X1 3E1X1 3E2X1 3E3X1 3E490 3E4X1 3E4X3 3E5X1 3E6X1 3M071 3S2X1 4F071 4N071
328	Air Base Survivability (ABS)	Requires 12 months of experience or completion of a formal ABS course.	3E900 3E971/91

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
330	Foreign Internal Defense (FID)	Requires commander's recommendation and either 1) completion of the Joint Aviation FID course, AFSOC 158002 (PDS code WA7), and a minimum of 6 months of experience in a civic action or FID operations unit, or in a staff position involving direct support of civic action or FID operations; or 2) a minimum of 12 months of experience in a civic action or FID operations unit.	1A1X1 1A2X1 1C2X1 1T1X1 2A1X2 2A1X3 2A5X1 2A5X2 2A6X2 2A6X5 2E1X3 2G0X1 2S0X1 2W1X1 3P0X1 3S0X1
332	Photojournalist	Requires completion of an accredited photojournalism school, 12 months of experience in an authorized UMD position, supervisor's recommendation endorsed by MAJCOM/SOA/DRU Visual Information functional manager, and final approval of HQ USAF/SCV.	3V000 3V090 3V0X2
333	Motion Media Journalist	Requires successful completion of course G5AZR-23173-000 (PDS Code WJT) and supervisor's and commander's recommendation.	3V090 3V053/73
335	Logistics Composite Model (LCOM)	Requires 12 months of experience.	2AXXX 2PXXX 2RXXX 3UXXX
336	Teleproduction Facility Experience	Requires completion of course E5AZD2E154-011 (PDS code N9A), 12 months of experience, and supervisor's recommendation.	2E000 2E190 2E1X4
339	Tactical Information Processing and Interpretation System	Requires (1) 6 months of experience with supervisor's certification for AFSCs/CEMs 1N0X1, 1N090, and 1N1X1; (2) supervisor's recommendation and either (a) completion of course G3AZR30554-008 (PDS code TJZ); or (b) 12 months of experience for CEM 2E000.	1N000 1N090 1N0X1 1N1XX 2E000
348	Safety Education Program	Requires 12 months of experience in operating multimedia equipment for safety education programs at either base or division (mobile systems).	1S0XX
350	Airspace Management	Requires (1) 6 months of consecutive experience in an airspace management position plus (2) completion of the USAF Airspace Management Course.	1C171/91/00 1C551D/71D 1C571/91/00
354	Repair and Reclamation Shop	Requires 12 months of experience.	2A300 2A3X3 2A390 2A590 2A5X1 2A5X2
355	HARVEST BARE Equipment Qualified	Requires completion of an established training course for any of the authorized AFSCs and supervisor's certification.	3E0XX 3E1X1 3E2X1 3E3X1 3E4XX 3MXXX
356	Hazardous Materials Trainer	Requires successful completion of course X3AZR-57150-012 (PDS Code WCX), 6 months experience, and supervisor's recommendation.	3E7XX
359	Stock Fund Financial Management	Requires completion of a formal course in Stock Fund Management and 6 months of experience performing or supervising the supply financial management function at base level, or as stock fund/O&M manager at numbered Air Force level or higher.	2SXXX
360	Automated Intelligence Systems	Requires either (1) 12 months of direct operational experience with an intelligence data handling system (IDHS), or (2) formal computer training and 6 months of operational experience with an IDHS.	1NXXX

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
361	Terminal Instrument Procedures (TERPS)	Requires (1) completion of course E3OZR1661-001 (PDS code D9K or QKL); (2) successful completion of TERPS portion of AFJQS 1C1X1; (3) 12 months of experience as primary TERPS specialist (alternate specialist will be evaluated on a case-by-case basis by MAJCOM authority), and (4) recommendation by the unit commander or designated representative.	1C171/91/00
362	Air Traffic Control Radar Approach Control Watch Supervisor/Senior Controller	Requires qualification as a Watch Supervisor/Senior Controller.	1C1XX
363	Air Traffic Control Radar Center	Requires certification of initial facility rating and recommendation by immediate supervisor and commander.	1C1XX
364	Air Traffic Control Radar Approach Control	Requires certification in approach, approach assistant, and arrival, and recommendation by immediate supervisor and commander.	
365	Radar Final Control (RFC)	Requires (1) prior qualification in and possession of SEI 053, 056, or 364; (2) successful completion of RFC portion of AFJQS 1C1X1; (3) precision approach radar position certification, and (4) recommendation by unit commander or designated representative.	1C1X1 1C100
366	Materials Testing (Concrete, Asphalt, and Soils)	Requires a minimum residency of 6 months at the AFESC or USAFA laboratory and recommendation of the Director of Laboratories, AFESC, or the OIC of the Soils Laboratory, USAFA, and concurrence of the Commander, AFESC, or Head, DFCEM, USAFA, respectively.	3E000 3E5X1
369	Aero Bulk Fuels Delivery Systems	Requires completion of (1) physiological training per AFI 11-403, *Aerospace Physiological Training Program* (2) TAC, USAFE, or PACAF Aero Bulk Fuels Delivery System course, and (3) a recommendation by the Fuels Management Officer.	2FXXX
372	Additional Duty Social Actions NCO	Requires experience in managing social actions programs on an additional duty basis in a geographically separated unit for 8 months, completion of additional duty social actions training, and commander's and MAJCOM approval.	Any AFSC
373	Precision Photographic Reconnaissance Systems Processing Equipment Maintenance	Requires 12 months of experience.	2E000 2E190 2E1X4
374	Precision Photographic Audiovisual Systems Processing Equipment Maintenance		
375	Explosive Safety Technician	Requires completion of an appropriate formal safety training course plus 6 months of experience in an explosive safety position, and supervisor's recommendation.	2W0XX 2W1XX

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
378	Morse Code Qualified	Requires transcription of 12 groups per minute and supervisor's recommendation.	1A3XX 3C000 3C1X1
379	Certified Welder	Requires certification of qualification to perform welding tasks on aircraft and missiles.	2A600 2A790 2A7X1
385	Instructional Systems Development (ISD) Manager	Requires 12 months of experience in ISD work and completion of ATC course 3AZR75133-000, Instructional Systems Designer (PDS code U4X), or equivalent. A Master's degree in education may be considered as one acceptable substitute for ISD course. MAJCOM ISD office recommendation is required.	Any AFSC except 3S2XX
386	Instructional Materials Writer/Manager	Requires 6 months of experience in preparation or revision of nonresident training materials and completion of the Technical Writer Nonresident Training Materials course 3AIR75200-015 (PDS code 5AT).	Any AFSC
387	Air Transportable Hydrant Refueling Systems (ATHRS)	Requires completion of (1) AAC, USAFE, or PACAF Air Transportable Hydrant Refueling System course or 30 days hands-on experience and (2) recommendation by the Fuels Management Officer.	2FXXX
389	Acquisition Security	Requires completion of a basic systems acquisition course, Air Force Materiel Command course MWE-OPS0002300SU, and 12 months of experience in systems security engineering management, systems security management, or security programming duties.	3P000 3P051/71/91
397	Barrier Arresting Kit 9	Award of each of these SEIs requires completion of course J3A2R3E053-004 (PDS code 3SX) or J4AZR-3E052-003. (PDS code GZO), task certification on the specific aircraft arresting barrier, and commander's recommendation.	3E000 3E090 3E0X2
398	Barrier Arresting Kit 12		
399	Barrier Arresting Kit 13		
400	Barrier Arresting Kit 14		
401	Barrier Arresting Kit 15		
405	Target Intelligence	This SEI is to support the merger of AFSCs 1N0X1 and 1N0X2 effective 30 Apr 96. SEI 405 is authorized for award to all personnel possessing AFSC 1N0X2 prior to 30 Apr 96. Use of this SEI expires 30 Apr 98.	1N0X1
406	Targeting	Award of this SEI requires completion of course X30ZR14N3B-000, Combat Targeting (PDS code 227); 12 months of experience in a targeting position; and supervisor's recommendation.	1N000 1N051/71/91
429	Synthetic Aperture Radar (SAR)/ Sidelooking Airborne Radar (SLAR)	Requires completion of the SAR course developed by the Defense Sensor Interpretation and Applications Training Program or 18 months of experience in the exploration of strategic or tactical radar imagery, SAR, or SLAR.	1N1XX
430	Weapons Accident Prevention Technician	Requires completion of a formal weapons safety management course, or 6 months of experience in a weapons safety position at the operational level.	1S0XX

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
		AREA EXPERIENCE SEIs	
445	Latin America	Requires 12 months of experience in an AFSC requiring language proficiency and adaptability to the environment and people of a country within a specified geographical area. Requires experience during assignment to such activities as military missions, assistance advisory groups, attaché posts, treaty organizations, and counterinsurgency forces. Also, requires supervisor's recommendation.	2E000 2E190 2E1X3 3C000 3C1XX
		MEDICAL SEIs	
475	Substance Abuse Certification	Requires certification as a substance abuse counselor according to AFI 36-2701, *Social Actions Program.* HQ AETC/SGCPM is sole authority for approving award or withdrawal of this SEI.	4C051/71/91/00
476	Medical Illustration	Requires recommendation of supervisor and submission of a portfolio containing medical illustrations as prescribed by HQ AFMOA/SGOC.	3V000 3V090 3V0X1
477	Medical Photography		3V000 3V090 3V0X2
478	Computed Tomography	Must be registry eligible or certified by the American Registry of Radiologic Technologists; have completed the manufacturer's training course; have 6 months of experience in an established computed tomography unit; and be recommended by the Chairman, Department of Radiology.	4R000 4R051/71/90
479	Special Procedures	Must be registry eligible or certified by the American Registry of Radiologic Technologists; have 6 months of experience in a major angiographic facility and have participated in a minimum of 200 angiographic procedures; and be recommended by the Chairman, Department of Radiology.	4R000 4R051/71/90
486	Dialysis Medical Technician (DMT)	Requires completion of DMT OJT, 12 months of active DMT clinical experience, and supervisor’s recommendation.	4N0XX
487	Critical Care Technician	Requires 12 months of experience in critical care (ICU/ CCU), Special Care Unit (SCU) or Neonatal Intensive Care Unit (NICU) related duties and supervisor's recommendation.	4FXXX 4H000 4H091 4N000 4N031/51/71 4N090
489	Medical Development NCO (MDNCO)	Requires completion of MDNCO training (MDO course, MDNCO exportable course, or MDO course approved medical unit local training), 12 months of experience, and supervisor’s recommendation.	4N0XX
490	Hyperbaric Medical Technician (HMT)	Requires completion of the HMT course, 12 months of clinical hyperbaric experience, and supervisor’s recommendation.	4F0XX 4M0XX 4N0XX
491	Cardiothoracic Surgical Technician	Requires 9 months of experience in a Medical Treatment Facility where open heart procedures are completed; 1st scrub on a minimum of 25 procedures involving use of a heart lung bypass machine; and be recommended by the Chairman, Department of Cardiothoracic Surgery.	4N151/71/91

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
492	Radiation Health Technician	Requires successful completion of the Industrial Radiological Hazards course and Radiation Health Technician course, and 12 months of experience in radiation health duties plus supervisor's recommendation.	4BXXX
493	Physiological Support	Requires 6 months of experience in TR-1, U-2, or SR-71 high altitude physiological support operations. Designation must be approved by the MAJCOM surgeon.	1T1XX 4MXXX
494	Aeromedical Evacuation	Requires 12 months of experience in an aeromedical evacuation unit and supervisor's recommendation.	4FXXX 4N0XX
495	Vascular Surgical Technician	Requires 6 month's experience at a Medical Treatment Facility with a recognized vascular surgery service; 1st scrub on a minimum of 50 major vascular procedures; and be recommended by Chief, Vascular Service.	4N151/71/91
496	Independent Duty Medical Technician	Requires completion of Medical Service Technician Independent Duty course and initial IDMT certification at the host medical treatment facility.	4FXXX 4N0XX
497	Ophthalmology Technician	Requires 9 months of experience in a Medical Treatment Facility with Department of Ophthalmology; 1st scrub on 50 procedures, 25 of which must have been cataract and 10 must have been plastic or trauma procedures; and be recommended by Chairman, Department of Ophthalmology.	4N151/71/91
498	Neurosurgery	Requires 9 months of experience in a Military Treatment Facility with Department of Neurosurgery; 1st scrub on 15 procedures where a cranial flap is turned; a minimum of 20 spinal cases; and be recommended by Chairman, Department of Neurosurgery.	4N151/71/91
499	Mental Health	This SEI is to support the merger of AFSCs 3S1X1B and 4C0X1 effective 31 Oct 96. Identifies all 4C0X1 personnel who did not attend the combined mental/substance abuse 3 level AFSC awarding course. 4C0X1 personnel who attended the 3 level course 1 Oct 95 or later, should not be awarded this SEI. Use of this SEI expires 31 Oct 98.	4C0X1
500	Substance Abuse	This SEI is to support the merger of AFSCs 3S1X1B and 4C0X1 effective 31 Oct 96. SEI 500 is authorized for award to all personnel possessing AFSC 3S1X1B prior to 1 Nov 96. Use of this SEI expires 31 Oct 98.	

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
		AIRCRAFT IDENTITY SEIs	
★501	A-10	Requires 12 months of experience and supervisor's recommendation. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months of experience and supervisor's recommendation.	2A000 2A0X1B 2A190 2A1X2 2A1X3 2A1X7 2A300 2A333E 2A3X3J 2A390 2A4XX 2A5X1 2A600 2A690 2A691 2A6X1A/C 2A6X3 2A6X4 2A6X5 2A6X6 2M000 2M090 2M0X1* 2W1XX
★502	CV-22 (Created 31 Oct 98)	Requires completion of either (1) a formal CV-22 course and 6 months of experience or (2) 12 months of experience and supervisor's or commander's recommendation.	2A000 2A190 2A0X1B 2A300 2A390 2A3X2 2A590 2A5X2 2A600 2A690 2A691 2A6X1B 2A6X4 2A6X5 2A6X6 2A7XX
503	KC-10	Requires 12 months of experience and supervisor's recommendation. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months of experience and supervisor's recommendation.	1A0XX 1A100 1A190 1A1X1C 2A000 2A190 2A1X2 2A1X3 2A300 2A4XX 2A5X1 2A590 2A600 2A690 2A691 2A6X1A/E 2A6X2 2A6X4 2A6X5 2A6X6 2A790 2A7X3
★504	T/UH-1D/F/N		1A1X0/X1B 1T2XX 2A000 2A190 2A1X2 2A1X3 2A300 2A390 2A4XX 2A590 2A5X2 2A600 2A690 2A691 2A6X1B 2A6X4/X5/X6
★505	Any H-60	Requires 12 months of experience and supervisor's recommendation. ***NOTE***: For individuals serving in 12 month short tour areas, one of the following designation criteria applies: (1) For AFSCs 1A1X1B, 2W100, 2W131Z, and 2W151/71/91, 10 months of experience and supervisor's recommendation. (2) For all other authorized AFSCs, 6 months of experience and supervisor's recommendation.	1A1X0 1A1X1B 2A000 2A190 2A1X1 2A1X2 2A1X3 2A1X7 2A300 2A4XX 2A590 2A5X2 2A600 2A690 2A691 2A6X1B 2A6X4 2A6X5 2A6X6 2A7XX 2W100 2W131Z 2W1X1
★506	F-117	Requires 12 months of experience and supervisor's recommendation. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months of experience and supervisor's recommendation.	2A000 2A0X1B 2A190 2A1X1 2A300 2A390 2A3X2 2A3X3B 2A600 2A690 2A6X1A/E 2A6X2 2A6X3 2A6X4 2A6X5 2A6X6 2A790 2A7X1 2A7X2 2A7X3 2W1XX

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
★510	U-2	Requires 12 months of experience and supervisor's recommendation. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months of experience and supervisor's recommendation.	1T1XX 2A000 2A190 2A1X1 2A1X2 2A1X3 2A1X7 2A300 2A333H 2A3X3J 2A4XX 2A590 2A5X1 2A600 2A690 2A691 2A6X1A/E 2A6X3 2A6X4 2A6X5 2A6X6 4MXXX
511	Any H-3		1A100 1A190 1A1X1B 1T2XX 2A000 2A190 2A1X1 2A1X2 2A1X3 2A1X7 2A300 2A4XX 2A590 2A5X1 2A5X2 2A600 2A690 2A691 2A6X1B 2A6X4 2A6X5 2A6X6 2W100 2W131Z 2W1X1*
★512	Any H-53		1A100 1A190 1A1X1B 1T2XX 2A190 2A1X1 2A1X2 2A1X3 2A1X7 2A4XX 2A590 2A5X2 2A600 2A690 2A691 2A6X1B 2A6X4 2A6X5 2A6X6 2A7XX 2W100 2W131Z 2W151/71/91
★513	AC-130H/U, Spectre Gunship	Requires 12 months of experience and commander's certification. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months of experience and commander's certification. Designation criteria for the aircrew AFSCs (1AXXX and A2W-151/71/91) are completion of formal training course (1) AC-130AG (PDS code BDZ), (2) AC-130FE (PDS code BEL), or (3) AC-130I0 (PDS code BEM), 24-months of experience, supervisor's recommendation and commander's certification.	1A100 1A190 1A1X1C 1A2XX 2A000 2A190 2A1X1 2A1X2 2A1X3 2A1X7 2A300 2A4XX 2A590 2A531B 2A551J 2A571 2A600 2A690 2A691 2A6X1B 2A6X4 2A6X5 2A6X6 2A7XX 2W100 2W131Z 2W151/71/91 8S100
★514	HC-130P/MC-130P	Requires completion of formal training courses MC130-PCSONVG (PDS code N9W) and either (1) MC130-PSOIQ/MQ (PDS code XAE), (2) MC130-PFEMQ (PDS code XAC), or (3) MC130PLMMQ (PDS code XAD); 24 months of experience; supervisor's recommendation; and commander's certification. For AFSC 2AXXX, requires 12 months of experience and supervisor's recommendation.	1A100 1A190 1A1X1C 1A2XX 1A3XX 2A000 2A190 2A1X1 2A1X2 2A1X3 2A1X7 2A300 2A4X1 2A4X2 2A590 2A531B 2A551J 2A571 2A600 2A690 2A691 2A6X1B 2A6X4 2A6X5 2A6X6 2A7XX

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
★515	MC-130E	Requires completion of formal training course (1) MC130ECS (PDS code XVN), (2) MC130EFE (PDS code XVL), or (3) MC130ELM (PDS code XVM); 18 months of experience; supervisor's recommendation; and commander's certification. For AFSCs 2AXXX, requires 12 months of experience and supervisor's recommendation. ***NOTE***: Completion of formal training may be accomplished in unit when approved by the major command functional manager.	1A100 1A190 1A1X1C 1A2XX 1A3XX 2A000 2A190 2A1X1 2A1X2 2A1X3 2A1X7 2A300 2A4X1 2A4X2 2A590 2A531B 2A551J 2A571 2A600 2A690 2A691 2A6X1B 2A6X4 2A6X5 2A6X6 2A7XX
★516	MC-130H	Requires completion of formal training course MC130-HFE (PDS code 4YC); 12 months of experience; supervisor recommendation, and commander's certification. For AFSCs 2AXXX, requires 12 months of experience and supervisor's recommendation. ***NOTE***: For individuals serving in 12 month short tour areas, experience requirement is reduced to 10 months.	
521	F-4G (Wild Weasel)	Requires 12 months of experience and supervisor's recommendation. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months of experience and supervisor's recommendation.	2A000 2A190 2A1X2 2A1X3 2A1X7 2A300 2A4X1
★522	F/RF-4		2A000 2A190 2A1X1 2A1X2 2A1X3 2A1X7 2A300 2A333D 2A390 2A3X3J 2A4XX 2A590 2A600 2A690 2A691 2A6X1A/C 2A6X3 2A6X4 2A6X5 2A6X6 2E000 2E190 2E1X4 2M000 2M090 2M0X1* 2W1XX
★525	Predator, Unmanned Aerial Vehicle (UAV) (Created 31 Oct 98)	Requires: For AFSCs 2AXXX, completion of J4AMF/ ASF/AST2A4X0 000 (PDS code 0SI), J4AMF/ ASF/AST 2A4X0 001 (PDS code 148), J4AMF/ ASF/AST 2A4X0 002 (PDS code 41I), 12 months of experience; and commander's recommendation. For AFSCs 2E1X1 and 2E2X1, 12 months of experience and supervisor's recommendation.	2A1X1 2A3X3J 2A390 2A300 2A4X1 2A4X3 2A590 2E1X1 2E2X1

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
★526	EF-111A	Requires supervisor's recommendation and either (1) formal training plus 8 months of experience; or (2) 12 months of experience. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months of experience and supervisor's recommendation.	2A000 2A190 2A300 2A390
★527	F-111A/E	Requires 12 months of experience and supervisor's recommendation. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months of experience and supervisor's recommendation.	2A000 2A190 2A300 2A390 2M000 2M090 2M0X1* 2W1XX
★528	F-111D		
530	F/EF-111 (Any Model)		2A300 2A390 2A353J/73J 2A600 2A690 2A691 2A6X1A/D 2A6X3 2A6X4 2A6X5 2A6X6
532	T-1/T-37/T-38		2A000 2A190 2A1X2 2A1X3 2A300 2A390 2A3X3J 2A4XX 2A600 2A690 2A691 2A6X1A/C 2X6X3 2A6X4 2A6X5 2A6X6
★533	F-15		2A000 2A0X1A 2A190 2A300 2A390 2A3X3A 2A600 2A690 2A691 2A6X1A/D 2A6X3 2A6X4 2A6X5 2A6X6 2M090 2M0X1* 2W1X1
★535	F-16		2A000 2A0X1B 2A190 2A1X1 2A300 2A390 2A3X2 2A3X3B 2A600 2A690 2A691 2A6X1A 2A6X1D 2A6X1E 2A6X3 2A6X4 2A6X5 2A6X6 2M090 2M0X1 2W1XX
★545	C-5		1A100 1A190 1A1X1C 1A200 1A2X1 2A000 2A190 2A1X2 2A1X3 2A300 2A4X1 2A4X2 2A551J 2A571 2A590 2A5X1C 2A600 2A690 2A691 2A6X1A/C 2X6X4 2A6X5 2A6X6
★546	C-17		1A200 1A2X1 2A000 2A0X1B 2A190 2A1X2 2A1X3 2A1X7 2A300 2A4XX 2A590 2A5X1 2A600 2A690 2A691 2A6X1A/C 2A6X4 2A6X5 2A6X6

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
★547	C-12	Requires 12 months of experience and supervisor's recommendation. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months of experience and supervisor's recommendation.	2A1X2 2A1X3 2A300 2A4X1 2A4X2 2A551J 2A571 2A590 2A5X1A 2A600 2A690 2A691 2A6X1B 2A6X4 2A6X5 2A6X6
★550	C-141		1A100 1A190 1A1X1C 1A2XX 2A000 2A190 2A1X2 2A1X3 2A300 2A4XX 2A551J 2A571 2A590 2A5X1A 2A600 2A690 2A691 2A6X1A/C 2A6X4 2A6X5 2A6X6
569	E-3A/B (AWACS)		1A100 1A190 1A1X1C 1A3XX 1A4XX 1A5XX 1C5XX 2A000 2A190 2A1X2 2A1X3 2A300 2A4XX 2A551L 2A571 2A590 2A5X1G 2A600 2A690 2A691 2A6X1A/C 2A6X2 2A6X4 2A6X5 2A6X6 2E000 2E231B/51B/71/91
★570	E-8, Joint Stars	Requires 12 months of experience and supervisor's recommendation.	1A1X0 1A1X1C 1A3XX 1A4XX 1A5XX 2A000 2A1XX 2A300 2A4XX 2A5X1G 2A551L 2A571 2A590 2A600 2A6X1A/C 2A690 2A691 2A6X4 2A6X5 2A5X6 2A7XX
572	Any C-130	Requires 12 months of experience and supervisor's recommendation. ***NOTE:*** For individuals serving in 12 month short tour areas, designation criteria are 10 months of experience and supervisor's recommendation.	1A100 1A190 1A1X1C 1A2XX 1A3X1 1A500 1A591 1T2XX 2A000 2A190 2A1X1 2A1X2 2A1X3 2A1X7 2A300 2A4XX 2A551J 2A571 2A590 2A5X1B 2A600 2A690 2A691 2A6X1B 2A6X4 2A6X5 2A6X6 2M090 2M0X1 2M0X2
★573	Compass Call	Requires 12 months of experience and supervisor's recommendation.	1N3XX 1N5XX 2A000 2A190 2A1X2 2A1X3 2A1X7 2A300 2A4XX 2A590 2A531B 2A551J 2A571 2A600 2A690 2A691 2A6X1B 2A6X4 2A6X5 2A6X6 2A7XX
★574	EC-135C/J (ABNCP)		2A000 2A1XX 2A300 2A4XX 2A590 2A571 2A531G 2A551L 2A600 2A690 2A691 2A6X1A/C 2A6X4 2A6X5 2A6X6 2A7XX.

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes		
★580	Any C-135/Boeing 707 Modification	Requires 12 months of experience and supervisor's recommendation. For AFSC 2A1X2/X3, this SEI does not include experience gained on RC-135 aircraft (see SEI 581).	1A100	1A190	1A1X1
			1A3XX	1A591	2A000
			2A190	2A1X2	2A1X3
			2A300	2A4XX	2A531G
			2A551L	2A571	2A590
			2A600	2A690	2A691
			2A6X1A/C	2A6X4	2A6X5
			2A6X6	2E000	2E3X1
			2E8XX		
★581	RC-135	.	2A000	2A190	2A1X2
			2A1X3	2A1X7	2A300
			2A390	2A4XX	2A531G
			2A551L	2A571	2A590
			2A600	2A690	2A691
			2A6X1A/C	2A6X4	2A6X5
			2A6X6		
★583	KC-135	Requires supervisor's recommendation and either (1) factory training plus 6 months of experience; or (2) 12 months of experience.	2A000	2A1X2	2A1X3
			2A300	2A4X1	2A4X2
			2A590	2A571	2A531G
			2A551L	2A690	2A691
			2A6X1A/C	2A6X4	2A6X5
			2A6X6	2A7XX	
★584	E-4A/B (AABNCP)	Requires 12 months of experience and supervisor's recommendation.	1A100	1A190	1A1X1C
			1A3XX	1A591	2A000
			2A190	2A1X2	2A1X3
			2A300	2A4XX	2A531G
			2A551L	2A571	2A590
			2A600	2A690	2A691
			2A6X1A/C	2A6X2	2A6X4
			2A6X5	2A6X6	2E000
			2E190	2E1X1	2E3X1
★586	B-52	Requires 12 months of experience and supervisor's recommendation. For AFSCs 2A6X6, 2A390, 2W1X1, and 2A6X4, this SEI does not include experience gained on B-52D aircraft.	2A000	2A190	2A1X1
			2A1X2	2A1X3	2A1X7
			2A300	2A4XX	2A571
			2A590	2A5X3A	2A600
			2A690	2A691	2A6X1A/C
			2A6X3	2A6X4	2A6X5
			2A6X6	2W1XX	
★588	B-1	Requires 12 months of experience and supervisor's recommendation.	2A000	2A0X1B	2A190
			2A300	2A551K	2A571
			2A590	2A5X1E	2A5X3
			2A600	2A690	2A691
			2A6X1A/E	2A6X3	2A6X4
			2A6X5	2A6X6	2W1XX
★589	T-39		2A000	2A190	2A1X2
			2A1X3	2A300	2A4XX
			2A571	2A5X1J	2A590
			2A5X1A	2A600	2A690
			2A691	2A6X1A/C	2A6X4
			2A6X5	2A6X6	

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
★590	Special Air Missions (SAM) (VC-25/ VC-135/VC-137/ C-9/C-20/C-21)	Requires 12 months of experience and supervisor's recommendation. For AFSCs 2AXXX: Requires 12 months of experience and supervisor's recommendation.	1A1X0 1A1X1C 1A3XX 2A000 2A1XX 2A300 2A4XX 2A590 2A571 2A5X1 2A5X1G 2A551J/L 2A600 2A690 2A691 2A6X1A 2A6X1C 2A6X4 2A6X5 2A6X6 2A7XX 8A000
★591	VC/C-9/T-43	Requires 12 months of experience and supervisor's recommendation.	2A000 2A190 2A1X2 2A1X3 2A300 2A4XX 2A571 2A5X1J 2A590 2A5X1A 2A600 2A690 2A691 2A6X1A/C 2A6X4 2A6X5 2A6X6
★596	B-2	Requires either (1) completion of a formal B-2 course and 6 months of experience; or (2) 12 months of experience and supervisor's recommendation.	2A000 2A0X1B 2A190 2A1X2 2A1X3 2A300 2A4XX 2A551K 2A571 2A590 2A5X1E 2A5X3 2A600 2A690 2A691 2A6X1A/E 2A6X3 2A6X4 2A6X5 2A6X6 2A7XX 2W1XX
AIRCRAFT ENGINES AND AVIONIC SYSTEMS/EQUIPMENT SEIs			
600	F101	Requires 6 months of experience and supervisor's recommendation.	2A300 2A390 2A3X3A 2A3X3B 2A333C/D/E/F/G/H/Z 2A373J 2A353J 2A600 2A691 2A6X1A 2A6X1E
★601	F100		2A300 2A390 2A3X3A 2A3X3B 2A333C/D/E/F/G/H/Z 2A373J 2A353J 2A600 2A691 2A6X1A 2A6X1D
★602	F110		2A300 2A390 2A3X3A 2A3X3B 2A333C/D/E/F/G/H/Z 2A373J 2A353J 2A600 2A691 2A6X1A 2A6X1E
★603	J57		2A300 2A390 2A333C/D/E/F/G/H/Z 2A373J 2A353J 2A590 2A5X1 2A600 2A691 2A6X1A 2A6X1C
605	J69		2A300 2A390 2A3X3A 2A3X3B 2A333C/D/E/F/G/H/Z
607	J79		2A373J 2A353J 2A600
608	J85		2A691 2A6X1A 2A6X1E
★611	TF30		2A300 2A390 2A3X3A 2A3X3B 2A333C/D/E/F/G/H/Z
★612	TF33		2A373 2A353J 2A600 2A691 2A6X1A 2A6X1C

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
613	TF34	Requires 6 months of experience and supervisor's recommendation.	2A300 2A390 2A3X3A 2A3X3B 2A333C/D/E/F/G/H/Z 2A373J 2A353J 2A600 2A691 2A6X1A 2A6X1E
★614	F108	Requires completion of: (1) one of the following courses: J4AMF/ASF/ AST-454X0A-029 (PDS code 8K3), J4AMF/ ASF/AST 2A6X1A-035 (PDS Code 81Z) or contractor equivalent, (2) 6 months of experience, (3) and supervisor's recommendation.	2A600 2A691 2A6X1A/C
★615	TF39 (Created 31 Oct 98)	Requires 6 months of experience and supervisor's or commander's recommendation	2A600 2A691 2A6X1A/C
★620	F4E/G APQ, Fire Control Radar System	Requires 12 months of experience, completion of a F-4E/G fire control radar system field training detachment course, and supervisor's recommendation.	2A190 2A1X3 2A4X2 2A590
621	Low Observable (LO) Maintenance	Requires 6 months of experience working LO structures and supervisor's recommendation.	2A790 2A7X3
★625	Automated Engine Tracking	Requires 12 months of experience and supervisor's recommendation.	2A300 2A390 2A3X3 2A590 2A5X1 2A5X2 2A600 2A691 2A6X1A 2A6X1B 2R1XX
★626	Radar Test Facility Technician	Requires 24 months of experience at 4484 Test Squadron's Radar Test Facility and supervisor's recommendation.	2A071A 2A190 2A174 2A351A 2A352A 2A371 2A372 2E851/71
628	Low Light Level Television	Requires 6 months of experience and supervisor's recommendation.	2A000 2A190 2A1X1
★629	Tactical Electronic Reconnaissance (TEREC)	Requires either (1) formal training plus 6 months of experience; or (2) 12 months of experience and supervisor's recommendation.	1N5XX 2A000 2A190 2A1X7
★630	AN/ALQ-131		2A000 2A0X1 2A190 2A1X7 2A300 2A390 2A3X1 2A3X2
★633	Low Altitude Navigation Targeting Infrared for Night (LANTIRN)	Requires either (1) formal training plus 6 months of experience; or (2) 12 months of experience and supervisor's recommendation.	2A000 2A1X1 2A190 2A300 2A390 2A3X1 2A3X2
★634	PAVE PENNY		2A000 2A1X1 2A190
★648	A-10 IATS		2A000 2A0X1B 2A190
649	Transportable Measurement System (TMS), AN/TSM-138ESS	Requires 12 months of experience and supervisor's recommendation.	2P051/71
★651	Physical Measurement and Calibration	Requires completion of ATC course 3AZR32470-031 (PDS code 3R5), 3AZR32470-019 (PDS code MNS) E3AZR 2P051-008 (PDS Code XRL), or E3AZR 2P051-010 (PDS Code XRN), plus 12 months of experience and supervisor's recommendation.	2PXXX
★652	Electrical-Electronic Measurement	Requires completion of ATC course 3AZR32470-026 (PDS code 1MP), 3AZR32470-034 (PDS code 67N), 3AZR32470-015 (PDS code SEE), E3AZR 2P051-014 (PDS Code 588), E3AZR 2P051-051 (PDS Code 490), or E3AZR 2P051-047 (PDS Code 52K), plus 12 months of experience and supervisor's recommenda-tion.	

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
★653	Radiac Instruments	Requires completion of ATC course 2ASR32470-002 (PDS code CTL), G3AZR32470-000 (PDS code CTL), or, E3AZR 2P051-050 (PDS Code 1PI) plus 12 months of experience and supervisor's recommendation.	2PXXX
654	Microwave Measurement and Calibration	Requires completion of AETC course 3AZR32470-018 (PDS code UDC) or 3AZR32470-043 (PDS code PAO) plus 12 months of experience and supervisor's recommendation.	
★656	ALQ-119	Requires 12 months of experience and supervisor's recommendation.	2A000 2A0X1 2A190 2A1X7
657	Transportable Measurement System (TMS), AN/TSM-131ESS		2P051/71
★659	Adverse Weather Aerial Delivery Systems (AWADS)	Requires completion of ATC course J4AMF/ASF/AST 32871-080 (PDS code Z9Z), AN/APQ122(V) 1 Maintenance, 4AMF/ASF/AST 32871-089 (PDS code0EQ), AN/APQ122 (V) 1 Flightline Maintenance, and CV-2368/A Maintenance; or J4AMF/ASF/AST 2A4X2-064 AN/APQ 175 (AWADS) radar Techn (O-Level) (PDS Code 3IR) plus 12 months of experience and supervisor's recommendation.	2A000 2A190 2A1X2 2A1X3 2A300 2A4XX 2A590
660	AN/AWN 37	Requires 12 months of experience and supervisor's recommendation.	2A000 2A190
★661	Spectrometric Oil Analysis	Requires either (1) formal training plus 6 months of experience; or (2) 12 months of experience and supervisor's recommendation.	2A7X2 2A600 2A790 2PXXX
★662	PAVE SPIKE	Requires either (1) formal training plus 6 months of experience; or (2) 12 months of experience supervisor's recommendation.	2A000 2A190 2A1X1
★663	PAVE TACK		
★664	AN/307 Operator		2A000 2A190
★665	Digital Scan Converter Group (DSCG)		
★668	AN/APX 81	Requires supervisor's recommendation and either (1) formal training plus 6 months of experience; or (2) 12 months of experience.	2A000 2A190 2A1X3 2A300 2A4X2 2A590
★669	AN/APQ 99/172		2A000 2A190 2A300 2A590 2A4X2
★670	AN/ARN 101		2A000 2A190 2A1X2 2A1X3 2A300 2A4XX 2A590
★672	Target Identification System Electro-Optical (TISEO)	Requires supervisor's recommendation and either (1) formal training plus 3 months of experience; or (2) 6 months of experience.	2A000 2A190 2A1X1
★676	AN/ALQ-184	Requires supervisor's recommendation and either (1) 6 months of experience plus completion of one of the following courses: E3AZR-45651-003 (PDS code 7SZ) or J4AMF/ASF/AST 2A1X7-040 (PDS Code 7NL) or a field training course; or (2) 12 months experience.	2A1X7

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
★677	Air Force Satellite Communications Systems (AFSAT COM)/Fleet Satellite Communications Systems (FLEETSATCOM)	Requires either (1) completion of a formal AFSATCOM course plus 6 months of experience; or (2) 12 months of experience and supervisor's recommendation.	1C6XX 2A000 2A0X1 2A190 2A1X3 2A300 2A390 2A3X1 2A3X2 2A4X2 2A590 2A5X3C 2E000 2E190 2E1X1 3C000 3C1X1 3C271
678	Advanced Range Instrumentation System	Requires 12 months of experience and supervisor's recommendation.	2E8XX
★679	Rivet Eagle 66M Camera System	Requires completion of the appropriate General Dynamics or Lockheed course, 6 months of experience, and supervisor's recommendation.	2A000 2A190 2A1X1
★680	ALM-204/ALQ-99E, Tactical Jamming Subsystem	Requires completion of courses J4AMF/ASF/AST-451X6B-002 (PDS code MT1) and J4AMF/ASF/AST 2A0X1A-002 (PDS Code MTB), 24 months of experience, and supervisor's recommendation.	2A0X1A 2A190
★684	AN/ALQ-99E TJS	Requires either (1) formal training plus 8 months of experience; or (2) 12 months of experience and supervisor's recommendation. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months of experience and supervisor's recommendation.	2A300 2A390 2A371 2A3X1C
★690	Intermediate or Depot Level Maintenance	Requires 24 months of intermediate maintenance experience at base level or at a depot level repair facility, and supervisor's recommendation.	2A000 2A071 2A051 2A190 2A171 2A151 2A172 2A152 2A173 2A153 2A174 2A154 2A177 2A157 2A553A 2A573A 2A600 2A690 2A691 2A671 2A651 2A6X3 2A674 2A654 2A675 2A655 2A676 2A656 2A790 2A7X1 2A7X2 2A773 2A753
★714	Specialized Aerial Spray Equipment (SASE) (Created 31 Oct 98)	Requires completion of applicable training course(s), 12 months of experience and commander's recommendation. AFSCs — Course Title and PDS Code 2AXXX — AAP 001, Aerial Application of Pesticides (PDS code 2EV) and J4AZT2A753-000, Aircraft Corrosion Control, (PDS code E9N) 1AXXX — AAP 001, Aerial Application of Pesticides (PDS code 2EV)	1A1X0 1A1X1 1A200 1A2X1 2A300 2A590 2A571 2A5X1B 2A5X1J 2A690 2A6X2 2A6X4 2A6X5 2A6X6 2A790 2A7X3

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
		WEATHER SEIs	
750	Forecaster (Doppler Radar)	Requires supervisor's recommendation, completion of a formal Doppler weather radar management course, and 12 months of experience in operational use of Weather Surveillance Radar-1988, Doppler (WSR-88D).	1W0X1A 1W000 1W091
752	Forecasting (Radar)	Requires 12 months of experience in interpretation and operational use of weather radar and supervisor's recommendation. At least 6 months of experience must be as a radar coordinator.	
753	Forecasting (Space Environment)	Requires 12 months of experience in the Space Forecast Center, to include analysis of space environmental data and issuance of space environment forecasts and warnings, and supervisor's recommendation.	
754	Forecasting (Tropical)	Requires completion of course C3OZR2524-002 (PDS code FDD) or 12 months experience in forecasting weather phenomena in tropic regions, and supervisor's recommendation.	
761	Observing	Requires 12 months of experience in operational use of a solar telescope (optical or radio) in observing and analysis, and supervisor's recommendation.	
798	Observing (Rawinsonde)	Requires supervisor's recommendation and 6 months experience to include a unit level training program on operational use of Rawinsonde equip.	1WXXX
800	Special Operations Weather Team	Requires 6 months of experience and supervisor's recommendation.	
		MISSILE IDENTITY SEIs	
802	International Nuclear Treaty Inspector	Requires completion of the Defense Intelligence College Strategic Arms Reduction Treaty Course or assignment to the On-Site Inspection Agency.	2M0X0 2M0X2
809	Missile Electronic Equipment Maintenance	Requires supervisor's recommendation, 12 months of experience, and completion of one of the following courses: C3AZR41150A-000 (PDS code 6LA), C3AZR41150A-001 (PDS code 6K9), C3AZR-41150A-002 (PDS code JM6), C3ABR31632G-001 (PDS code M53), C3ABR31632G-002 (PDS code E73), C3AZR41150B-002 (PDS code J5U), C3AZR-46650-001 (PDS code J5U), or C3AZR31672T-000 (PDS code 2YC). ***NOTE:*** For AFSCs 2M0X1A, the 12 months of experience must be obtained at a ICBM electronic laboratory.	2M0X0 2M0X1
828	MK-11/12A Reentry Vehicle	Requires supervisor's recommendation and either (1) 12 months of experience; or (2) formal training and 6 months of experience.	2W2XX
829	MK-12/12A Reentry System		

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
836	Munitions Inspector	Requires supervisor's recommendation and either (1) completion of the AETC Munitions Inspector course and 8 months of experience; or (2) 24 months of experience.	2W0XX
857	WS-133B	Requires 6 months of experience and supervisor's recommendation.	2A600 2A790 2A7X3 2E000 2E190 2E1X3 2E231C/51C/71/91 2E690 2E6X1 2E6X2 2E8XX 2M0XX 2RXXX 3E000 3E090 3E0X1 3E0X2 3E1X1
858	WS-133A/M		
860	WS-118	Requires 6 months of experience in a designated Peacekeeper missile maintenance position and supervisor's recommendation.	2A600 2A790 2A7X3 2E000 2E190 2E1X3 2E690 2E6X1 2E6X2 2E8XX 2MXXX 2RXXX 3E000 3E1X1
		COMMAND CONTROL SYSTEMS SEIs	
900	Combat Airspace Manager	Requires completion of courses TAC228550 (PDS Code ZEN) and TAC228555 (PDS Code 9TH), or ACC JAOSC (PDS Code 77L), participation in Joint Chiefs of Staff exercise with combat airspace management employment, and commander's recommendation.	1C171/91/00
905	407L Tactical Air Control System	Requires 6 months of experience and supervisor's recommendation.	1C500 1C5X1 2A300 2A600 2A6X2 2E000 2E190 2E0X1 2E1X1 2E1X3 2E3X1 3C000 3C2XX 3E000 3E090 3E0X2
906	416L Continental Air Defense Control and Warning System		1C500 1C5X1 2E000 2E090 2E0X1 2E190 2E1X3 2E3X1 2E6X1 2E690
907	Defense Meteorological Satellite Program - Control Readout Station (CRS)	Requires 6 months of experience and supervisor's recommendation.	1C6XX
908	Defense Meteorological Satellite Program (DMSP) Command Control Center		2E000 2E4X1
910	Over the Horizon - Backscatter (OTH-B)	Requires 12 months of experience and supervisor's recommendation.	1C500 1C551/71/91 1C551D/71D
911	Modular Control Equipment (MCE), AN/TTQ-23		1C500 1C5X1 2A600 2A6X2 2E190 2E1X1 2E1X3 2E231A/51A 2E251/71/91 2E3X1 3C000 3C2XX
912	427M American Air Defense COC (NORAD)	Requires 6 months of experience and supervisor's recommendation.	1C500 1C5X1 2E000 2E190 2E1X1 2E1X4 2E2X1 2E3X1 3C000 3C2XX

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
914	Enlisted Terminal Attack Controller (ETAC)	Requires successful completion of TAC course 228560 (PDS code ZEP) or 228561 (PDS code 5RG), certification as an ETAC according to applicable MAJCOM directives, and recommendation by unit commander.	1C400 1C451/71/91
915	465L SAC Command Control Systems (SACCS)	Requires 6 months of experience and supervisor's recommendation.	1C3XX 2E000 2E190 2E1X4 2E3X1 3C000 3C1X1 3C2XX
916	Strategic Defense Radar Systems Evaluator	Requires 24 months of experience in the 84th Radar Evaluation Squadron or other radar evaluation unit in an evaluation function; completion of courses TAC-303RE 000 (PDS code 8YJ) and TAC303RE 001 (PDS code 8YW); and commander's recommendation.	1C5XX 1W071A 2E0X1 2E2X1 3C0XX
924	Department of the Air Force Command and Control System (DAFCCS)	Requires 6 months of experience and supervisor's recommendation.	1C3XX 1C500/X1 2E000
927	Ballistic Missile Early Warning System (BMEWS)-Mech	Requires 6 months of experience and supervisor's recommendation.	1C6XX
928	Ballistic Missile Early Warning System (BMEWS) - Phased-Array		
933	481L Post Attack Command and Control System (PACCS)		1A3XX 2E000 2E2X1 2E3X1
934	Fixed and Mobile Space Based Communications Operation		1C6XX 2E000 2E2X1 2E3X1 2E4X1
935	Space Based Communications Operation, Large Processing Station (LPS)		
936	Defense Satellite Communications System Operations Center (DSCSOC)	Requires assignment to a DSCSOC, 12 months of experience, and supervisor's recommendation.	1C600/91/71/51 3C000 3C291/71/51
942	484L Presidential Aircraft Support System	Requires 6 months of experience and supervisor's recommendation.	2E000 2E1X1 2E190 2E1X3 2E3X1
★954	487L Survivable Low Frequency Communications System	Requires 6 months of experience and supervisor's recommendation.	2A000 2A0X1B 2A190 2A1X3 2A300 2A390 2A3X3 2A4X2 2A590 2A5X1 2A5X3C 2A600 2A690 2A6X5 2A6X6 2E000 2E190 2E1X3 2E3X1 2E690 2E6X1 2E000 3C000 3C2XX

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
970	Special Tactics	Requires completion of special tactics initial familiarization (IFAM) training conducted at Hurlburt Fld FL; 12 months of experience; and commander's certification. ***NOTE***: For individuals serving in 12 month short tour areas, experience requirement is reduced to 10 months of experience.	1C251/71/91/00 1T251/71/91/00
971	Special Tactics Operator	Requires completion of the special tactics operator initial familiarization (IFAM) training conducted at Pope AFB NC; 12 months of experience; and commander's certification.	1C251/71/91/00 1T251/71/91/00
978	Communications Satellites/Satellite Control Network	Requires 12 months of experience and supervisor's recommendation.	1C6XX
979	Space Defense Operations Center (SPADOC)	Requires 6 months of experience and supervisor's recommendation.	1C6XX
982	496L SPACETRACK (Phased-Array Radar/ Cobra Dane/FPS-85)		1C6XX 2E000 2E2X1 2E3X1 2E4X1 2E690
983	496L SPACETRACK (Optical Surveillance)	Requires 6 months of experience and supervisor's recommendation.	1C6XX 2E000 2E190 2E1X4 2E2X1
985	Research and Development Techn Serving in Development Engineering Position	Requires assignment to a scientific or development engineering position.	SDI 8E000
986	Sea Launched Ballistic Missile (SLBM) Phased-Array Warning System (PAVE PAWS)	Requires recommendation by immediate supervisor and either (1) 12 months of experience; or (2) 6 months of experience and formal training. ***NOTE***: For AFSCs 1C6X1, requires 6 months of experience and supervisor's recommendation.	1C6XX 2E000 2E2X1 2E4X1
988	Sector/Region Operations Control Center	Requires 6 months of experience and supervisor's recommendation. ***NOTE***: For AFSCs 2E2X1 and CEM 2E000 completion of course E1ASC30574-051 (PDS code ZHH), E1ASC30574-052 (PDS code ZHJ), E1ASC30574-054 (PDS code ZHL), or E2ASP30554-000 (PDS code 2GM) may be substituted for the experience requirement.	1C5XX 2E000 2E231A/51A/71/91
990	Space Surveillance Center	Requires 6 months of experience and supervisor's recommendation.	1C6XX
991	Air Force Space Operations Center		
992	Space Command Center		
993	Global Positioning System		
994	Deep Space Tracking System	Requires 12 months of experience and supervisor's recommendation.	
995	Milstar		
996	Defense Support Program/ Satellite Control Network		

Attachment 41

ALPHANUMERIC SPECIAL EXPERIENCE IDENTIFIERS (ADE SP-160, AFI 33-110)

Introduction

1. The special experience identifiers (SEI) contained in this attachment provide a means of retrieving special experience for certain requirements and are intended as management tools to add a degree of flexibility to the personnel system not available by using prefixes and suffixes. SEIs are intended to reflect an unusual or changing management need for identification that may not be common to an AFSC, any group of AFSCs, or to a specific command. SEIs are not used in lieu of AFSCs, suffixes, prefixes, reporting identifiers, or special duty identifiers.

2. SEIs may be identified on manpower documents.

3. Requests for establishing new SEIs or deleting or revising an existing SEI will be submitted according to the instructions contained in paragraph 5 of this manual.

4. Alphanumeric SEIs in this attachment may be designated by any Air Force major command or separate operating agency to personnel and positions only when authorized to do so by Air Intelligence Agency (AIA).

ALPHANUMERIC SPECIAL EXPERIENCE IDENTIFIERS (SEI)			
SEI Code	**Title**	**Explanation/Designation Criteria**	**Authorized AFSCs/ CEM Codes**
★1AA	Direct Support Operator (DSO)	Requires qualification as a DSO on board specified special operations aircraft; 6 months of experience; completion of S-V84-A, United States Navy Underwater Egress Training; and supervisor's recommendation.	X1N200 1N3XXX
1AB	Data Link Operator (DLO)	Requires qualification as a DLO and supervisor's recommendation.	1N2XX 1N3XXX 1N4X1
★1AC	Adversary Tactics Analyst	Requires qualification as an analyst; two years of experience or attendance at the Adversary Threat Tactics Analysis Course; one year experience in Tactics Analysis and Studies Element; and supervisor's recommendation.	1N2XX 1N3XXX 1N4XX 1N5XX
★1GG	Basic Level Down-Linked Signal Intelligence Collection Plat-form Crypto-Linguist	Requires 6 months of experience and supervisor's recommendation.	1N200 1N3XXX
1MM	Satellite Crypto-Linguist		
1NN	Multichannel Crypto-Linguist		
1PP	Airborne Analyst/Ground Mission Analyst		1N2XX 1N3XXX 1N4X1
1QQ	Airborne Mission Supervisor/ Ground Mission Supervisor		
★1RR	Basic Crypto-Analyst	Requires completion of National Cryptologic School course CI-150 (PDS Code 9JL)/152 (PDS Code 434) /243/244, IS-180, MP-119, (PDS Code 9JR), TG-023, (PDS Code 9JG), and CA-103 or CA-104, 6 months of experience, and supervisor's recommendation.	1N200 1N3X4A 1N390
1ZA	Space Systems Technician	Requires 6 months of experience and supervisor's recommendation.	1N2XX 1N5XX
1ZD	Cryptographer	Requires completion of National Cryptologic School Course CA-103 or CA-104, Exploitation of Manual Crypto Systems (formerly CA-107), CA-261, X3AZR1N451 006 (PDS Code 4YS); 6 months of experience, and supervisor's recommendation.	1N200 1N4X1 1N3XXX
★1ZK	Emergency Reaction Unit/Direct Supporting Unit/Communications Security Technician	Requires 6 months of experience, completion of squadron mobility training program, and supervisor's recommendation.	1N2XX 1N4X1 1N5XX 1N6XX 2E0X1 2E1X1 2E1X3 2E190 2E2X1 2E3X1 2S0X1 2S090 2T100 2T1X1 2T3X1 2T370 2T390 3A000 3A0X1 3C000 3C0X1 3C0X2 3C090 3E000 3E1X1

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
★1ZV	Enciphered Communications Analyst	Requires completion of course 3AZ1N451A-000 or course X3AZR1N251-000 (PDS Code Y9W), 6 months of experience, and supervisor's recommendation.	1N2XX 1N4X1
2AA	Intermediate Level Crypto-Linguist	Requires L2+/R2+ Defense Language Proficiency Test scores or completion of an intermediate level language course at the Defense Language Institute or an established Cryptologic Linguist Program sponsored by NSACSS; and supervisor's recommendation.	1N200 1N3XXX
2RR	Intermediate Crypt-analyst	Requires completion of National Cryptologic School courses CI-150/ 152/243/244, IS-180, MP-119, TG-023, and CA-103 or CA-104; 6 months experience; L2+/R2+ Defense Language Proficiency Test scores; completion of an intermediate level language course at the Defense Language Institute or an established Cryptologic Linguist Program sponsored by NSACSS; and supervisor's recommendation.	1N200 1N3X4A 1N390
2ZF	Communication Identifi-cation Methodology Analyst	Requires completion of X4AST20050-017, X4AOF20050-003/4AST20050-003; or X4AST20050-012/X4AOF20050-012; or X4AST20050-013/ XAOF20050-013; or X4AST20050-014/X4AOF20050-014; and supervisor's recommendation.	1N2XX 1N4X1
★2ZG	High Frequency Direction Finding (HFDF) Technician	Requires completion squadron qualification program or HFDF training packages at non FLR-9 sites, 6 months of experience, and supervisor's recommendation.	1N2XX
★2ZN	Keelan System Operator	Requires completion of A-231-0045/ 0450 (PDS Code 84L), A-231-77 (PDS Code LR0), 6 months of experience, and supervisor's recommendation.	
★2ZP	Advanced Identification Techniques Technician	Requires completion of X5AZA1N251-000 (PDS Code 70E), or 6 months of experience and supervisor's recommendation.	
★2ZX	Special Program	Requires 6 months of experience and supervisor's recommendation.	1N2XX 1N5XX
2ZY	Advanced Non-Morse Signal Analyst	Requires completion of X5AZN1N251-001 (PDS Code X81) or MCSAP Program, and supervisor's recommendation.	1N2XX
2ZZ	Basic Non-Morse Signals Analyst	Requires completion of X5AZN1N251-003 (PDS Code 207) and supervisor's recommendation.	
3AA	Advanced Level Crypto-Linguist	Requires L3/R3 Defense Language Proficiency Test scores; completion of an advanced level language course at the Defense Language Institute or an established Cryptologic Linguist Program sponsored by NSACSS; and supervisor's recommendation.	1N200 1N3XXX
★3RR	Advanced Crypto-Analyst	Requires completion of National Cryptologic School course CI-150/152/243/244, IS-180, MP-119, TG-023, and CA-103 or CA-104; 6 months of experience, L3/ R3 Defense Language Proficiency Test scores; completion of an advanced level language course at the Defense Language Institute or an established Cryptologic Linguist Program sponsored by NSACSS; and supervisor's recommendation.	1N200 1N3X4A 1N390
3ZC	Foreign Instrumentation Analyst	Requires completion of X5AZA1N551-000 and supervisor's recommendation.	1N2XX 1N5XX
★3ZD	Advisory Interactive	Requires certification on KG-84, 10 months of	2E1X3 2E2X1

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
	Reporting System Technician	experience, and supervisor's recommendation.	
★3ZJ	Airborne Maintenance Technician (AMT)	Requires (1) 12 months of experience as a certified lead AMT and supervisor's recommendation; or (2) completion of course AIA2A1X7 002 (PDS Code PSZ), 24 months of experience on the ES-142A collection system, and supervisor's recommendation.	X2A00 X2A1X7 X2A190
★3ZN	Ground RIVET JOINT Maintenance Technician	Requires 18 months of experience on the RIVET JOINT Ground Data Processing System or Transportable Mission Processing System and supervisor's recommendation.	2A1X7 2A190
★3ZU	MXT-1200 Printer Maintenance Technician	Requires completion of course X3AZR2E351-030 (PDS Code 97P) or 12 months of experience, and supervisor's recommendation.	2E1X3 2E2X1 2E3X1
★3ZY	SENIOR YEAR Ground Station Maintenance Technician	Requires 9 months of experience and supervisor's recommendation.	2A1X7 2A190 2E2X1 2E1X3 3E0X2 3E1X1
★4ZA	AN/FLR-9 Enlarger Maintenance Technician	Requires completion of course E5ASN2E153-020 (PDS Code XTZ) or 12 months of experience, and supervisor's recommendation.	2E1X3 2E190
★4ZK	Ground System Digital Technician	Requires completion of course X3AZR2E153-061 (PDS Code WF8), 6 months of experience, and supervisor's recommendation.	
★4ZZ	PARSEC Maintenance Technician	Requires completion of course X3AZR2E251-259 (PDS Code W3V), 6 months of experience, and supervisor's recommendation.	2E2X1
5ZC	SENIOR SCOUT Operator	Requires qualification on the SENIOR SCOUT aircraft, and supervisor's recommendation.	1N5XX
★5ZD	SENIOR RUBY Operator	Requires completion of X1ASC20550-007 and 6 months of experience; or 12 months of experience; and supervisor's recommendation.	
5ZF	Middle Enlisted Crypto-logic Career Advancement Program (MECCAP)	Requires completion of the MECCAP and supervisor's recommendation.	1N2XX 1N3XXX 1N4X1 1N5XX 1N6XX
★5ZG	PROFORMA Operator	Requires 6 months of experience and supervisor's recommendation.	1N2XX 1N3XXX 1N4X1 1N5XX
5ZH	Field Trained Signals Analyst	Requires completion of National Cryptologic School courses EA-030; EA-100, EA-183 and EA-200, and supervisor's recommendation.	1N2XX

Attachment 42

CHIEF ENLISTED MANAGER (CEM) CODES

Introduction

1. Description and General Duties. CEM codes contained in this attachment identify all chief master sergeant positions in the Airman Classification Structure. They also identify chief master sergeants who, through extensive experience and training, have demonstrated managerial ability to plan, direct, coordinate, implement, and control a wide range of work activity. Some managerial duties and responsibilities that are common to all chief enlisted managers are:
1.1. Manages and directs personnel resource activities; interprets and enforces policy and applicable directives.
1.2. Establishes control procedures to meet work goals and standards.
1.3. Recommends or initiates actions to improve functional operation efficiency.
1.4. Plans and programs work commitments and schedules.
1.5. Develops plans regarding facilities, supplies, and equipment procurement and maintenance.

2. CEM Composition and Concept. CEM codes in many cases are made up of a series of existing superintendent specialties where the degree of supervisory and managerial task involvement permits expanded resource use. As chief enlisted managers, chief master sergeants will be subject to working in a variety of similar jobs and functional areas where their general managerial and supervisory abilities can be most effectively used and challenged.

3. Award Criteria. CEM codes are awarded according to procedures outlined in AFI 36-2101. Basic requirements for awarding CEM codes are:
3.1. Be in the grade of chief master sergeant (or chief master sergeant selectee).
3.2. Possess qualification in a feeder specialty. The expanded duties and responsibilities, qualifications, and other specialty data for CEM codes are drawn from 9 level "feeder" specialty descriptions, consistent with the function and job performed. The table that follows identifies CEM codes and their titles and feeder specialties.

CEM CODE	TITLE	9-LEVEL FEEDER
1A000	In-Flight Refueling Manager	1A091
1A100	Flight Engineer Manager	1A190
1A200	Aircraft Loadmaster Manager	1A291
1A300	Airborne Communications Systems Manager	1A391
1A400	Airborne Warning Command and Control Systems Manager	1A491
1A500	Airborne Missions System Manager	1A591
1C000	Air Operations Manager	1C091 1C092
1C100	Air Traffic Control Manager	1C191
1C200	Combat Control Manager	1C291
1C300	Command and Control Manager	1C391
1C400	Tactical Air Command and Control Manager	1C491
1C500	Aerospace Control and Warning System Manager	1C591
1C600	Space Systems Operations Manager	1C691
1N000	Intelligence Applications and Exploitation Manager	1N091 1N191
1N200	Signals Intelligence Analysis Manager	1N291 1N390 1N491
1N500	Electronic Signals Intelligence Exploitation Manager	1N591
1N600	Electronic Systems Security Assess Manager	1N691
1S000	Safety Manager	1S091
1T000	Survival, Evasion, Resist & Escape Training Manager	1T091
1T100	Aircrew Life Support Manager	1T191
1T200	Pararescue Manager	1T291
1W000	Weather Manager	1W091
★2A000	Avionics Systems Manager	2A190
★2A300	Aircraft Manager	2A390 2A590
2A600	Systems Manager	2A690 2A691 2A692 2A790
2E000	Communications-Electronics Systems Manager	2E091 2E190 2E291 2E391 2E491 2E690
2E800	Instrumentation and Telemetry Systems Manager	2E891
2F000	Fuels Manager	2F091
2G000	Logistics Plans Manager	2G091
2M000	Missile and Space Systems Maintenance Manager	2M090
2P000	Precision Measurement Equipment Laboratory Manager	2P091
2R000	Maintenance Data Systems Analysis Manager	2R091
2R100	Maintenance Scheduling Manager	2R191
2S000	Supply Manager	2S090
2T000	Traffic Manager	2T091
2T100	Vehicle Operations Manager	2T191
2T200	Air Transportation Manager	2T291
2T300	Vehicle Maintenance Manager	2T390
2W000	Munitions Maintenance Manager	2W091
2W100	Aircraft Armament Manager	2W191
2W200	Nuclear Weapons Manager	2W291
3A000	Information Management Manager	3A091
3C000	Communications-Computer Systems Manager	3C090 3C191 3C192 3C291 3C391

CEM CODE	TITLE	9-LEVEL FEEDER

3E000	Civil Engineer Manager	3E090 3E191 3E291 3E391 3E490 3E591 3E691
3E700	Fire Protection Manager	3E791
3E800	Explosive Ordnance Disposal Manager	3E891
3E900	Readiness Manager	3E991
3H000	Historian Manager	3H091
3M000	Services Manager	3M091
3N000	Public Affairs Manager	3N090
3N100	Regional Band Manager	3N190
3N200	Premier Band Manager	3N291
3P000	Security Forces Manager	3P091
3S000	Personnel Manager	3S090
3S100	Equal Opportunity and Treatment Manager	3S191
3S200	Education & Training Manager	3S291
3U000	Manpower and Quality Management Manager	3U091
3V000	Visual Information Manager	3V090
4A000	Health Services Management Manager	4A091
4A100	Medical Materiel Manager	4A191
4A200	Biomedical Equipment Manager	4A291
4B000	Bioenvironmental Engineering Manager	4B091
4C000	Mental Health Service Manager	4C091
4D000	Diet Therapy Manager	4D091
4E000	Public Health Manager	4E091
4F000	Aeromedical Manager	4F091
4H000	Cardiopulmonary Laboratory Manager	4H091
4J000	Biomedical Therapy Manager	4J091 4J092
4M000	Aerospace Physiology Manager	4M091
4N000	Medical Service Manager	4N091 4N191
4P000	Pharmacy Manager	4P091
4R000	Diagnostic Imaging Manager	4R090
4T000	Medical Laboratory Manager	4T090
4U000	Orthotic Manager	4U091
4V000	Optometry Manager	4V090
4Y000	Dental Manager	4Y090
5J000	Paralegal Manager	5J091
5R000	Chaplain Service Support Manager	5R091
6C000	Contracting Manager	6C091
6F000	Financial Manager	6F091
7S000	Special Investigations Manager	7S091

Attachment 43

INDEX

This index does not contain a listing of all skill level titles in every AFSC structure. It lists titles of each specialty description, reporting identifier, and special duty identifier. Chief enlisted manager titles and codes are listed separately (see attachment 42), and specialty descriptions are not written to this level in the Airman Classification Structure.

TITLE	AFSC	Page
A		
Aeromedical	4F0X1	289
Aerospace Control and Warning Systems	1C5X1	65
Aerospace Ground Equipment (AGE)	2A6X2	124
Aerospace Maintenance	2A5X1	116
Aerospace Maintenance (Superintendent)	2A590	115
Aerospace Physiology	4M0X1	294
Aerospace Propulsion	2A6X1	122
Air Traffic Control	1C1X1	60
Air Transportation	2T2X1	188
Airborne Communications Systems	1A3X1	51
Airborne Missions Systems	1A5X1	55
Airborne Surveillance Radar	2A1X4	104
Airborne Battle Systems Management	1A4X1	53
Aircraft Armament Systems	2W1X1	200
Aircraft Avionics (Superintendent)	2A490	111
Aircraft Command Control Communications & Navigation Systems	2A4X3	114
Aircraft Communication and Navigation Systems	2A4X2	113
Aircraft Electrical and Environmental Systems	2A6X6	129
Aircraft Fabrication (Superintendent)	2A790	130
Aircraft Fuel Systems	2A6X4	127
Aircraft Guidance and Control Systems	2A4X1	112
Aircraft Hydraulic Systems	2A6X5	128
Aircraft Loadmaster	1A2X1	49
Aircraft Metals Technology	2A7X1	131
Aircraft Structural Maintenance	2A7X3	133
Aircraft Systems (Superintendent)	2A690	125
Aircrew Egress Systems	2A6X3	126
Aircrew Life Support	1T1X1	89
Airfield Management	1C0X1	58
Airman Aide	9G000	25
Airman Awaiting Discharge, Separation, or Retirement for Beyond Their Control	9A300	25
Airman Awaiting Discharge, Separation, or Retirement for Rsns Within Their Ctrl	9A200	24
Airman Awaiting Retraining - Disqualified for Reasons Beyond Control	9A000	24
Airman Awaiting Retraining - Disqualified for Reasons Within Control	9A100	24
Airman Ineligible for Local Utilization	9U000	26
Applied Geophysics	9S100	25
Applied Sciences	9S200	25
Avionics Guidance and Control Systems	2A1X2	102
Avionics Sensors Maintenance	2A1X1	101
Avionics Test Station and Components	2A0X1	98

TITLE	AFSC	Page
B		
Basic Airman	9T000	25
Bioenvironmental Engineering	4B0X1	282
Biomedical Equipment	4A2X1	280
Bomber Avionics Systems	2A5X3	120
C		
Cardiopulmonary Laboratory	4H0X1	290
Chaplain Service Support	5R0X1	318
Chief Master Sergeant of the Air Force	9C000	25
Civil Air Patrol (CAP)-USAF Reserve Assistance NCOs	9R000	25
Combat Control	1C2X1	61
Command and Control	1C3X1	63
Communication and Navigation Systems	2A1X3	103
Communications and Antenna Systems	2E6X1	154
Communications Cable Systems	2E6X2	156
Communications Systems (Superintendent)	2E190	138
Communications-Computer Systems (Superintendent)	3C090	206
Communications-Computer Systems Control	3C2X1	213
Communications-Computer Systems Operations	3C0X1	207
Communications-Computer Systems Planning and Implementation	3C3X1	215
Communications-Computer Systems Programming	3C0X2	209
Contracting	6C0X1	321
Conventional Avionics (Superintendent)	2A190	100
Correctional Custody Supervisor	8J000	37
Courier	8P000	39
Cryptologic Linguist	1N3XX	76
Cryptologic Linguist (Superintendent)	1N390	75
Cytotechnology	4T0X3	307
D		
Defense Attaché	8P100	40
Dental (Superintendent)	4Y090	312
Dental Assistant	4Y0X1	313
Dental Laboratory	4Y0X2	314
Diet Therapy	4D0X1	286
Dormitory Manager	9D000	25
Diagnostic Imaging	4R0X1	301
Diagnostic Imaging (Superintendent)	4R090	301
E		
Education and Training	3S2X1	264
Electrical (Superintendent)	3E090	218
Electrical Power Production	3E0X2	220
Electrical Systems	3E0X1	219
Electromagnetic Spectrum Management	3C1X2	212
Electronic Computer and Switching Systems	2E2X1	147
Electronic Signals Intelligence Exploitation	1N5X1	80
Electronic System Security Assessment	1N6X1	81
Electronic Warfare Systems	2A1X7	105

TITLE **AFSC** **Page**

Engineering 3E5X1 231
Environmental 3E4X3 230
Equal Opportunity and Treatment 3S1X1 262
Explosive Ordnance Disposal 3E8X1 234

F

F-15/F-111 Avionic Systems 2A3X1 107
F-16 Avionic Systems 2A3X2 109
Family Support Center 8C000 31
Financial Analysis 6F1X1 325
Financial Management 6F0X1 234
Fire Protection 3E7X1 233
First Sergeant 8F000 35
Flight Engineer 1A1X1 47
Flight Engineer (Superintendent) 1A190 47
Fuels 2F0X1 163

G

General Purpose Vehicle Maintenance 2T341 194
Ground Radar Systems 2E0X1 136
Ground Radio Communications 2E1X3 143

H

Health Services Management 4A0X1 278
Heating, Ventilation, Air Conditioning, and Refrigeration 3E1X1 222
Helicopter Maintenance 2A5X2 118
Histopathology 4T0X2 306
Historian 3H0X1 239

I

Imagery Analysis 1N1X1 72
In-Flight Passenger Service Specialist 8A000 28
In-Flight Refueling 1A0X1 46
Information Management 3A0X1 204
Instrumentation and Telemetry Systems 2E8X1 160
Intelligence Applications 1N0X1 70
Interpreter/Translator 9L000 25

L

Linguist Debriefer/Interrogator 8D000 32
Liquid Fuel Systems Maintenance 3E4X2 229
Logistics Plans 2G0X1 166

TITLE	AFSC	Page
M		
Maintenance Data Systems Analysis	2R0X1	177
Maintenance Scheduling	2R1X1	178
Manpower and Quality Management	3U0X1	267
Medical Laboratory	4T0X1	304
Medical Laboratory (Superintendent)	4T090	303
Medical Materiel	4A1X1	279
Medical Service	4N0X1	296
Mental Health Service	4C0X1	284
Meteorlogical and Navigation Systems	2E1X2	141
Military Training Instructor	8B000	29
Military Training Manager	8B100	30
Missile and Space Facilities	2M0X3	173
Missile and Space Systems Electronic Maintenance	2M0X1	170
Missile and Space Systems Maintenance	2M0X2	172
Missile and Space Systems Maintenance (Superintendent)	2M090	169
Missile Facility Manager	8S000	42
Munitions Systems	2W0X1	198
N		
Nondestructive Inspection	2A7X2	132
Nuclear Weapons	2W2X1	202
O		
Occupational Therapy	4J0X1	292
Officer Trainee	9T100	25
Operations	3E6X1	232
Operations Resource Management	1C0X2	59
Optometry	4V0X1	309
Optometry (Superintendent)	4V090	309
Orthotic	4U0X1	308
P		
Paralegal	5J0X1	306
Pararescue	1T2X1	90
Patient	9P000	24
Pavements and Construction Equipment	3E2X1	223
Personnel	3S0X1	258
Personnel (Superintendent)	3S090	257
Personnel System Management (PSM)	3S0X2	260
Pharmacy	4P0X1	300
Physical Therapy	4J0X2	293
Postal	8M000	38
Precadet Assignee	9T200	26
Precision Measurement Equipment Laboratory	2P0X1	175
Premier Band	3N2X1	250
Printing Management	3R0X1	255
Prisoner	9J000	25
Professional Military Education Instructor	8T000	44
Public Affairs	3N0X1	246
Public Affairs (Superintendent)	3N090	245

TITLE AFSC Page

Public Health 4E0X1 288

R

Radio and Television Broadcasting 3N0X2 247
Radio Communications Systems 3C1X1 211
Readiness 3E9X1 236
Recruiter 8R000 41
Regional Band 3N1X1 248
Regional Band (Superintendent) 3N190 230
Research and Development Technician 8E000 34

S

Safety 1S0X1 84
Satellite and Wideband Communications Equipment 2E1X1 139
Secure Communications Systems 2E3X1 149
Security Forces 3P0X1 252
Senior Enlisted Advisor 9E000 25
Sensor Operator 8S100 43
Services 3M0X1 242
Signals Intelligence Analysis 1N4X1 79
Signals Intelligence Production 1N2X1 74
Space Systems 2E4X1 151
Space Systems Operations 1C6X1 67
Special Investigations 7S0X1 328
Special Purpose Vehicle and Equipment Maintenance 2T3X1 192
Special Vehicle Maintenance 2T3X2 193
Still Photographic 3V0X2 272
Structural 3E3X1 225
Supply Management 2S0X1 181
Supply Management (Superintendent) 2S090 180
Supply Systems Analysis 2S0X2 182
Surgical Service 4N1X1 298
Survival Equipment 2A7X4 134
Survival, Evasion, Resistance, and Escape Training 1T0X1 87

T

Tactical Air Command and Control 1C4X1 64
Tactical Aircraft (Superintendent) 2A390 106
Tactical Aircraft Maintenance 2A3X3 110
Telephone and Distributed Communications Systems (Superintendent) 2E690 153
Telephone Systems 2E6X3 158
Traffic Management 2T0X1 184

U

Unallotted Airman Authorization 9U100 26
United States Air Force Honor Guard 8G000 36
Utilities Systems 3E4X1 228
Utilities Systems (Superintendent) 3E490 227

TITLE	AFSC	Page

V

Vehicle Body Maintenance 2T4X2 195
Vehicle and Equipment Maintenance (Craftsman)..... 2T370 191
Vehicle Maintenance (Superintendent) 2T390 190
Vehicle Maintenance Control and Analysis 2T3X7 196
Vehicle Operations..... ..2T1X1 186
Visual Imagery and Intrusion Detection Systems..... 2E1X4 145
Visual Information Production-Documentation 3V0X3 274
Visual Information Services (Superintendent) 3V090 270
Visual Information Services..... 3V0X1 271

W

Weather 1W0X1 93

Attachment 44

11 March 1998

IC 98-1 TO AFMAN 36-2108, AIRMAN CLASSIFICATION, 31 October 1997

SUMMARY OF REVISIONS

This change incorporates interim change (IC) 98-1 which includes all approved airman classification changes to be implemented 30 April 1998. Attachment 1, Airman Change Summary and Conversion Guide for 30 April 1998, reflects a summary and conversion instructions for all AFSC changes, mergers, additions, realignments, and deletions of classification identifiers. Also, this change incorporates a career progression chart on the introduction page for each career field. New attachments 1, and 43 replace existing attachments, respectively. Finally, because each specialty description is designed to stand alone, if a change has been made to any portion of the specialty description, the entire description is replaced with the revised specialty. See the last attachment of the publication, IC 98-1, for the complete IC. A star (★) indicates revisions from the previous edition.

Attachment 1

AIRMAN
CHANGE SUMMARY AND CONVERSION GUIDE
FOR 30 APRIL 1998

INTRODUCTION

STANDARD CONVERSION INSTRUCTIONS: The standard instructions listed below are referred to by note number in the "Conversion Instruction Notes" column of this Change Summary and Conversion Guide. Notes are used singly or in combination to cover conversion instructions. However, written specific instructions may be added or substituted when a change requires special clarification.

NOTE	INSTRUCTION
1.	Code deleted from Airman Classification Structure.
2.	Code added to Airman Classification Structure.
3.	Converts directly in PDS. No further MPF action required; report on individual person (RIP) source document provided.
4.	No conversion action required.
5.	Title change.
6.	See explanation of prefix in attachment 2 for award and deletion criteria.
7.	Review and evaluation of an individual's qualification are required before designating SEI. Manpower and Personnel representatives, with local functional help, will review authorized AFSC positions on unit manpower document and designate SEI to appropriate positions.
8.	Indirect conversion. Action required: a. Personnel. First AFSC listed under "New AFSC" column is the "pre-select AFSC" that will be automatically selected and shown in preconversion listing available to MPFs by 15 September 1998. MPFs, with the help of local functional representatives, will review and evaluate preselect preconversion to determine if (1) DAFSC/CAFSC match manpower position conversion, (2) CAFSC is at correct skill level, and (3) awarded AFSCs (P/2/3/4) are correct, according to individual's qualification. More than one AFSC associated with this conversion may be awarded if individual qualifies based on background and experience. AFI 36-2101 applies. If review and evaluation finds preconversion preselect AFSCs are correct, MPFs will not change in PDS; if incorrect, MPFs must update PDS to reflect conversions. MPFs must prepare source documents for all AFSC indirect conversions. See AFMAN 36-2622, volume 1, table 6.1. b. Manpower. With the help of the functional manager, MAJCOM and Field Operating Agency (FOA) manpower will determine UMD changes required to effect conversion. They will reflect positions in the projected AFSC field of the command manpower data system (CMDS) as soon as possible after notification by HQ AFPC/DPPAC of approved indirect conversion but not later than 15 August 1998. c. Pipeline Personnel. Pipeline personnel already on assignment as of effective date will convert as follows: For personnel with a report not later than date (RNLTD) of 31 August 1998 or earlier, HQ AFPC/DPAA will change projected AFSC in PDS to match position to which member will be assigned. On arrival, MPF will award AFSC coinciding with the position of assignment, unless previously awarded. Assignment of personnel with RNLTD of 1 September 1998 or later, will be reevaluated by HQ AFPC/DPAA and either confirmed, canceled, or diverted, based on post-conversion requirements at the tentative gaining unit and the individual's qualifications for the AFSC in which he or she will be shipped.
9.	Headquarters Air Force (HAF) and BLMPS table changes required.
10.	Manpower table changes required.

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
Prefix C	Flying Crew Chief	No Change	No Change	List of authorized AFSCs is revised to add AFSCs 2A352A/B/C, 2A372, 2A353B/73B.	MPF: 2, 6. AFPC: 2, 9. Manpower: 2, 10.
Prefix K	Aircrew Instructor	No Change	No Change	List of authorized AFSCs is revised to add AFSCs 3V052/72, 3V053/73, and 3V090.	
Prefix V	Automated Functional Applications Analyst/Monitor	No Change	No Change	List of authorized AFSCs is revised to delete 2E600.	MPF: 1, 4, 6. AFPC: 1, 9. Manpower: 1, 10.
Prefix X	Aircrew	No Change	No Change	List of authorized AFSCs is revised to add AFSCs 3V052/72, 3V053/73, and 3V090.	MPF: 2, 6. AFPC: 2, 9. Manpower: 2, 10.
1A2X1	Aircraft Loadmaster	No Change	No Change	Specialty description is revised to update duties and responsibilities.	All: 4.
1A400	Airborne Warning Command and Control Manager	No Change	Airborne Battle Management Manager	Specialty description is revised to retitle the specialty, update terminology, and duties and responsibilities. The term battle management replaces all references to command and control.	MPF: 4, 5. AFPC: 5, 9. Manpower: 5, 10.
1A4X1	Airborne Warning Command and Control	No Change	Airborne Battle Management		
2A1X4	Airborne Warning and Control Radar	No Change	Airborne Surveillance Radar Systems	Specialty description is revised to retitle the specialty, update terminology, duties and responsibilities and add mandatory 7-skill level training.	
2A3X1	F-15/F-111 Avionic Systems	No Change	No Change	Specialty description is revised to update duties and responsibilities and add references to automated maintenance systems.	All: 4.
X2A473	Aircrew, Aircraft Command and Control Communications and Navigation Systems Craftsman	2A473 X1A371	Aircraft Command and Control Communications and Navigation Systems Craftsman Aircrew, Airborne Communications Systems Craftsman	Selected positions and personnel in AFSCs X2A473, X2A453, and X2A433 which operate and maintain airborne communication systems in E-4B and EC-135C aircraft at **Offutt AFB, NE**, indirectly convert to 1A3X1. No change is required to either the 1A3X1 or 2A4X3 specialty descriptions.	**Indirect Conversion** MPF/Manpower: 8. AFPC: 8, 9. ***NOTE:*** Approximately 56 aircrew X2A4X3 positions have been identified to convert to X1A3X1. Personnel that convert to X1A3X1 will be reawarded AFSC 2A4X3 as a secondary or additional AFSC.
X2A453	Aircrew, Aircraft Command and Control Communications and Navigation Systems Journeyman	2A453 X1A351	Aircraft Command and Control Communications and Navigation Systems Journeyman Aircrew, Airborne Communications Systems Journeyman		

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
X2A433	Aircrew, Aircraft Command and Control Communications and Navigation Systems Apprentice	2A433 X1A331	Aircraft Command and Control Communications and Navigation Systems Apprentice Aircrew, Airborne Communications Systems Apprentice	See Summary on previous page.	See Conversion Notes on previous page.
2A5X3	Bomber Avionics Systems	No Change	No Change	Specialty description is revised to update terminology and duties and responsibilities. Specialty qualification are revised to add mandatory training for award of the 7-skill level. There are no other changes to qualification criteria.	All: 4.
2A6X2	Aerospace Ground Equipment	No Change	No Change	Specialty description is revised to update duties and responsibilities.	
2A7X1	Aircraft Metals Technology	No Change	No Change	Specialty description is revised to update terminology, duties and responsibilities, and training qualifications. Training is updated to include mandatory 7-skill level training.	
2E600	Telephone and Distributed Communication Manager	2E000	Communication-Electronic System Manager	CEM code 2E600 is deleted as an authorized identifier to support the merger of CEM codes 2E600 and 2E000. All authorizations and personnel are merged into CEM code 2E000.	**Direct Conversion** MPF: 1, 3, 5. AFPC: 1, 3, 5, 9. Manpower: 1, 3, 5, 10.
2E190	Communications Systems, Supt	No Change	No Change	Specialty description is revised to delete all references to AFSC 2E5X1.	All 4.
2E571 2E551 2E531 2E511	Imagery Systems Maintenance Craftsman Imagery Systems Maintenance Journeyman Imagery Systems Maintenance Apprentice Imagery Systems Maintenance Helper	2E174 2E154 2E134 2E114	Visual Imagery and Intrusion Detection Systems Craftsman Visual Imagery and Intrusion Detection Systems Journeyman Visual Imagery and Intrusion Detection Systems Apprentice Visual Imagery and Intrusion Detection Systems Helper	AFSCs 2E5X1 are deleted as authorized identifiers in the airman classification structure. All 2E5X1 functions, duties, and responsibilities are merged into AFSCs 2E1X4. Concurrently, the specialty description is revised to include all imagery systems maintenance functions and retitle the specialty. There is no change in the ASVAB, strength aptitude, or physical profile for entry into 2E1X4.	**Direct Conversion** MPF: 1, 3, 5. AFPC: 1, 3, 5, 9. Manpower: 1, 3, 5, 10.
3C1X1	Radio Communications Systems	No Change	No Change	Specialty description is revised to update duties and responsibilities, and delete the 15 WPM typing requirement for award of the 3-skill level.	All: 4.

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
4A071	Health Services Management Craftsman	4A071 3S071	No Change Personnel Craftsman	This is an indirect conversion of selected 4A0X1 authorizations and personnel to 3S0X1. No change is required in the 3S0X1 specialty description. The 4A0X1 specialty description is revised to update terminology, and duties and responsibilities. Only 4A0X1 authorizations and personnel dedicated to the Medical Commander's Support Staff (medical orderly room functions) will convert to AFSCs 3S0X1.	**Indirect Conversion** MPF/Manpower: 8. AFPC: 8, 9. ***NOTE:*** Approximately 191 Medical Commander Support Staff (MCSS) positions have been identified to convert and have been coded with SEI 004, or "new" MCSS positions have been projected as 3S0X1. All 4A0X1 personnel affected by this conversion have been awarded SEI 004. MPFs will review and evaluate only those 4A0X1 personnel that have been awarded SEI 004 and are assigned to an MCSS position. Personnel that convert to 3S0X1 will be reawarded AFSC 4A0X1 as a secondary or additional AFSC.
4A051	Health Services Management Journeyman	4A051 3S051	No Change Personnel Journeyman		
4A031	Health Services Management Apprentice	4A031 3S031	No Change Personnel Apprentice		
Atch 39	Additional Mandatory Requirements for AFSC Entry	No Change	No Change	Atch 39 is revised to: 1. Delete AFSCs 2E5X1. 2. Change Strength Aptitude Test (SAT) requirement for AFSC 4A2X1 from code G (40 lbs) to code H (50 lbs). 3. Change SAT for AFSCs 4R0X1 and 4R0X1A from code H (50 lbs) to code G (40 lbs).	All: 4.
SEI 030	KN-S4100 Digital Telephone Switching System	No Change	No Change	List of authorized AFSCs/CEMs is revised to: Delete 2E600. Add: 2E000	MPF: 4. AFPC: 9. Manpower: 10.
SEI 033	Digital Telephone Switching Systems, Digital Multiplex Switch 100/200 and Meridian Stored Logic 100/200	No Change	No Change		
SEI 038	STREAMLINER System	No Change	No Change	List of authorized AFSCs/CEMs is revised to delete 3C0XX.	
SEI 095	Operational Test and Evaluation (OT&E)	No Change	No Change	List of authorized AFSCs/CEMs is revised to delete 2E5X1.	
SEI 132	Communications-Computer Systems, Level I	No Change	No Change	List of authorized AFSCs/CEMs is revised to delete 2E600.	

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
SEI 134	Communications-Computer Systems III	No Change	No Change	List of authorized AFSCs/CEMs is revised to: Delete: 2E600. Add: 2E000.	MPF: 4. AFPC: 9. Manpower: 10.
SEI 170	Andrews Aeronautical Station	None	None	SEI 170 is deleted as an authorized identifier in the airman classification system. AFSCs/CEMs impacted by this change are 3C000 and 3C1X1.	MPF: 1, 4. AFPC: 1, 9. Manpower: 1, 10.
SEI 200	Electronic Installation	No Change	No Change	List of authorized AFSCs/CEMs is revised to delete 2E600.	MPF: 4. AFPC: 9. Manpower: 10.
None	None	SEI 209	Imagery Systems Maintenance	SEI 209 is established as an authorized identifier in the airman classification system to support the merger of AFSC 2E5X1 into 2E1X4. Award requires prior qualification and possession of AFSC 2E5X1 prior to 30 Apr 98. Authorized AFSCs 2E1X4. ***NOTE:*** SEI 209 will be deleted from the airman classification system 30 Apr 2000.	MPF/Manpower: 2, 7. AFPC: 2, 9. ***NOTE***: This SEI must be awarded to personnel who possessed AFSC 2E5X1 prior to 30 Apr 98. It will be used for assignments to ensure a proper experience mix for the initial 2 year transitional period following the effective date of merger.
None	None	SEI 233	Defense Message System	SEI 233 is established as an authorized identifier in the airman classification system. Award requires (1) completion of course E3AZR3C051-024 (PDS 4IS), or completion of all of the following Lockheed Martin con-tracted courses: T00003X, T00005, T00007, and T00009X or Lockheed Martin instructor versions of these courses (T00004X, T00006, T00008, and T000010X respectively), and (2) 6 months of hands-on system administration in direct support of DMS or (3) a minimum of 18 months of hands-on experience; plus supervisor's and commander's recommendation. AFSCs authorized for use with this SEI are 3C0X1 and 3C2X1.	MPF/Manpower: 2, 7. AFPC: 2, 9.
SEI 282	Technical Eval-uation Program (TEP) (SCOPE/-CREEK)/Special Maintenance Team	No Change	No Change	List of authorized AFSCs/CEMs is revised to delete 3C000 and 3C2XX.	MPF: 4. AFPC: 9. Manpower: 10.
SEI 300	Technical Order Acquisition Verification Management	No Change	No Change	List of authorized AFSCs/CEMs is revised to delete 3C000 and 3C2XX.	

Current AFSC	Current Title	New AFSC	New Title	Summary of Change	Conversion Instruction Notes
None	None	SEI 303	Retention Office Manager (ROM)	SEI 303 is established as an authorized identifier in the airman classification system. Award requires completion of Retention Office Management (ROM) course YPMEC RT (PDS 3QG). AFSC authorized for use with this SEI is 8R000.	MPF/Manpower: 2, 7. AFPC: 2, 9.
SEI 373	Precision Photographic Reconnaissance Systems Processing Equipment Maintenance	No Change	No Change	List of authorized AFSCs/CEMs is revised to: Delete 2E5X1. Add: 2E1X4.	MPF: 4. AFPC: 9. Manpower: 10.
SEI 374	Precision Photographic Audiovisual Systems Processing Equipment Maintenance	No Change	No Change		
SEI 857	WS-133B	No Change	No Change	List of authorized AFSCs/CEMs is revised to delete 2E600.	
SEI 858	WS-133A/M	No Change	No Change		
SEI 860	WS-118	No Change	No Change		
SEI 906	416L Continental Air defense Control and Warning System	No Change	No Change		
SEI 954	487L Survivable Low Frequency Communications System	No Change	No Change		
SEI 963	490L DCS Auto Voice Switching Program (AUTOVON)	None	None	SEI 963 is deleted as an authorized identifier in the airman classification system. AFSCs/CEMs impacted by this change are 2E000, 3C000, and 3C2XX.	MPF: 1, 4. AFPC: 1, 9. Manpower: 1, 10.
SEI 982	496L SPACETRACK (Phased-Array Radar/ Cobra Dane/FPS-85)	No Change	No Change	List of authorized AFSCs/CEMs is revised to delete 2E600.	MPF: 4. AFPC: 9. Manpower: 10.
SEI 983	496L SPACETRACK (Optical Surveillance)	No Change	No Change	List of authorized AFSCs/CEMs is revised to: Delete: 2E5X1. Add: 2E1X4.	
Atch 42	Chief Enlisted Manager (CEM) Codes	No Change	No Change	Atch 42 is revised to retitle CEM code 1A400, delete CEM Code 2E600 and add 2E690 as a 9-level feeder for CEM Code 2E000.	All: 4

Attachment 2

AUTHORIZED PREFIXES

Prefix	Title	Explanation
A	Development Craftsman	Identifies positions on manpower documents and airmen serving in or qualified to serve in positions at the 5-skill level or higher (or 3-skill level if no 5-skill level exists) that directly support research and development activities or projects. Affix prefix A to duty and control AFSCs when airmen are assigned to authorized prefix A positions. Retain the prefix only so long as they are incumbents. Award and affix the prefix to the awarded AFSC (P/2/3/4AFSC) when airmen demonstrate development craftsman qualifications. Retain the prefix as long as airmen remain qualified. An airman must meet the following prerequisites for award of this prefix: 1. Possess an AFSC authorized for use with this prefix. 2. Demonstrate qualification in scientific or engineering design, development, testing, or research functions for 6 months. Use prefix A with only the following AFSCs: **Career Field AFSC** 1A 1A351/71/91/00 1C 1C551/71/91/00 and 1C551D/71D 1T 1T151/71/91/00 1W All 2A All 2E All except 2E651/71 2P All 2M All 2W All 3C 3C000, 3C151/71/91, 3C132/72/92, and 3C251/71/91 3E All 3V All 4A 4A251/71/91/00 4B 4B051/71/91/00 4C 4C051/71/91/00 4E 4E051/71/91/00 4F 4F051/71/91/00 4H 4H051/71/91/00 4J All 4M 4M051/71/91/00 4N All 4P 4P051/71/91/00 4R All 4T All except 4T0X3 4U 4U051/71/91/00 4V All 4Y All

Prefix	Title	Explanation
B	B-2 Personnel	Identifies positions on manpower documents and airmen serving in, qualified to serve in, or receiving formal training to qualify to serve in B-2 positions. Affix prefix B to the duty AFSC when airmen are assigned to authorized prefix B positions and retained only so long as they are incumbents. Affix prefix B to the control AFSC when airmen are assigned to prefix B positions or entry into a formal training course leading to a B-2 assignment. If an airman fails to complete training, then withdraw the prefix from the control AFSC. Retain the prefix only so long as they are incumbents of prefix B positions. Award and affix the prefix to the awarded AFSC (P/2/3/4AFSC) when airmen demonstrate B-2 qualification. Retain the prefix as long as airmen remain qualified. An airman must meet the following prerequisites for award of this prefix: 1. Possess an AFSC authorized for use with this prefix. 2. Successfully complete B-2 training or have 6 months' experience in B-2 unit. Use prefix B with only the following AFSCs: 2A090 2A0X1B 2A190 2A1X2 2A1X3 2A490 2A4X1 2A4X2 2A590 2A5X1E/K 2A571 2A5X3 2A690 2A691 2A6X1A/E 2A6X3 2A6X4 2A6X5 2A6X6 2A790 2A7X1 2A7X2 2A7X3 2A7X4
C	Flying Crew Chief	Identifies positions on manpower documents and airmen serving in or qualified to serve in flying crew chief (FCC) positions. FCCs have first level supervisory responsibility for maintenance of the aircraft to which assigned, and ensures all maintenance actions are performed off-station. Affix prefix C to the duty and control AFSCs when airmen are assigned to authorized prefix C positions. Retain the prefix only so long as they are incumbents. Award and affix the prefix to the awarded AFSC (P/2/3/4AFSC) when airmen demonstrate FCC qualification. Retain the prefix as long as airmen remain qualified. An airman must meet the following prerequisites for award of this prefix: 1. Possess an AFSC authorized for use with this prefix. 2. Have a minimum of 18 months' experience on the weapon system to which assigned prefix C duty. 3. Qualify for FCC duty according to AFI 21-101, *Maintenance Management of Aircraft.* Use prefix C with only the following AFSCs: 2A352A/B/C 2A372 2A353B/73B 2A451/71 2A452/72 2A551/71 2A552/72 2A651/71 2A655/75 2A656/76

Prefix	Title	Explanation
G	Automated Systems Programming Craftsman	Identifies positions on manpower documents and airmen serving in, qualified to serve in, or receiving formal training to qualify to serve in positions requiring functional area expertise with the ability to program computers associated with automated Air Force functions. Automated systems programming craftsman interpret and refine plans and specifications prepared by systems analysts and prepare system logic flow charts depicting automated problem solutions for which detailed functional area knowledge is essential. Automated systems programming craftsmen use functional area knowledge to expedite converting plans, flow charts, and operational sequence specifications into machine instructions. Automated systems programming craftsmen prepare system charts, administrative processing charts, and data layouts showing information to be processed. In addition, automated systems programming craftsmen use functional area knowledge to develop, maintain, and modify programs. Affix prefix G to duty and control AFSCs when airmen are assigned to authorized prefix G positions and retained only so long as they are incumbents. Award and affix the prefix to the awarded AFSC (P/2/3/4AFSC) when airmen demonstrate automated systems programming qualification. Retain the prefix as long as airmen remain qualified. This prefix is awarded and deleted by headquarters no lower than major command level. An airman must meet the following prerequisites for award of this prefix: 1. Possess an AFSC authorized for use with this prefix. 2. Have at least 12 months' experience in the operational aspects of an Air Force functional area while serving in an authorized AFSC applicable to the area. 3. Have completed a formal training course in computer programming and possess a minimum of 12 months' experience performing the duties described above (6 months' additional experience may be substituted for the 9 weeks' formal training). The unit commander or supervisor of the automated system certifies the proficiency in programming the functional area automated system. Use prefix G with only the following AFSCs: 1C052/72/92/00 1C151/71/91 1W051/91/00 1W051A/71A 2E051/71/90 2E251/71/91 2F051/71/91/00 3C000 3C251/71/91 3S051/71/90/00
J	Parachutist	Identifies positions on manpower documents and airmen serving in or qualified to serve in parachutist positions. (See *AFI 11-402, Aviation and Parachutist Service, Aeronautical Ratings and Badges, Aviation and Parachutist Service, Aeronautical Ratings and Badges* for further explanation of this prefix.) Affix prefix J to duty and control AFSCs when airmen are assigned to authorized prefix J positions and retained only so long as they are incumbents.

Prefix	Title	Explanation
J	Continued	Award and affix the prefix to the awarded AFSC (P/2/3/4AFSC) when airmen demonstrate parachutist qualification. Retain the prefix as long as airmen remain qualified, notwithstanding orders terminating parachutist duties. An airman must meet the following prerequisites for award of this prefix: 1. Successfully complete parachute training. 2. Meet physical standards to perform parachute duty. 3. Hold a parachutist rating.
K	Aircrew Instructor	Identifies positions on manpower documents and airmen serving in or qualified to serve in aircrew instructor positions. Affix prefix K to the duty AFSC when airmen are assigned to authorized prefix K positions and retain only so long as they are incumbents. Affix prefix K to the control AFSC when airmen are assigned to aircrew positions on flying status and retain only so long as they are incumbents. Award and affix the prefix to the awarded AFSC (P/2/3/4AFSC) when airmen demonstrate aircrew instructor qualification. Retain the prefix as long as airmen remain qualified whether or not they are on flying status. An airman must meet the following prerequisites for award of this prefix: 1. Possess an AFSC authorized for use with this prefix. 2. Perform satisfactorily in an authorized position requiring performance as an aircrew instructor. 3. Meet physical standards for aircrew duty according to AFI 48-123, *Medical Examination and Standards* Class III medical standards. 4. Qualify for aviation service according to *AFI 11-402, Aviation and Parachutist Service, Aeronautical Ratings and Badges*. Use prefix K with only the following AFSCs: 1A051/71/91/00 1A190/00 1A151B/71B 1A151C/71C 1A251/71/91/00 1A351/71/91/00 1A451/71/91/00 1A591/00 1A551/71 1C451/71 1N051/71/91 1N551/71/91 1N37XX 1T251/71/91/00 1W051/91/00 1W051A/71A 2A000 2A190 2A153/73 2A490 2A452/72 2W151/71/91/00 3V090 3V052/72 3V053/73 8S100 9S100 9S200

Prefix	Title	Explanation
N	Network Systems Administration	Identifies positions on manpower documents and airmen serving in or qualified to serve in network systems administration positions. Affix prefix N to duty and control AFSCs when airmen are assigned to authorized prefix N positions and retained only so long as they are incumbents. Award and affix the prefix to the awarded AFSC (P/2/3/4AFSC) when airmen demonstrate qualification. An airman must meet the following prerequisites for award of this prefix: 1. 7-skill level and below. 2. Currently serving as system administrator for a client-server networked system. 3. Six months systems administration experience and completion of technical training in systems administration; or, eighteen consecutive months of experience performing primarily as systems administrator. (***NOTE***: Systems administration technical training can be through AFSC-specific technical school, supplemental course, or through contract provided training.) 4. Supervisor's recommendation and commander's certification. ***NOTE*:** This prefix is authorized for use on manpower documents with any RI, SDI, or AFSC (5- and 7-skill levels only).
Q	Aircrew Standardization/ Flight Examiner	Identifies positions on manpower documents and airmen serving in or qualified to serve in aircrew standardization/flight examiner position. Affix prefix Q to the duty AFSC when airmen are assigned to authorized prefix Q positions and retain only so long as they are incumbents. Affix prefix Q to the control AFSC when airmen are assigned to aircrew positions on flying status and retain only so long as they are incumbents. Award and affix the prefix to awarded AFSC (P/2/3/4AFSC) when airmen demonstrate aircrew standardization/flight examiner qualification. Retain the prefix as long as airmen remain qualified whether or not they are on flying status. An airman must meet the following prerequisites for award of this prefix: 1. Possess an AFSC authorized for use with the prefix. 2. Perform satisfactorily in an authorized position requiring performance as an aircrew standardization/ flight examiner. 3. Meet physical standards for aircrew duty according to AFI 48-123 Class III medical standards. 4. Qualify for aviation service according to *AFI 11-402, Aviation and Parachutist Service, Aeronautical Ratings and Badges*.

Prefix	Title	Explanation
Q	Continued	Use prefix Q with only the following AFSCs: 1A051/71/91/00 1A190/00 1A151B/71B 1A151C/71C 1A251/71/91/00 1A351/71/91/00 1A451/71/91/00 1A591/00 1A551/71 1C451/71 1N051/71/91 1N551/71/91 1N37XX 1T251/71/91/00 1W051/91/00 1W051A/71A 2A000 2A190 2A153/73 2A490 2A452/72 2W151/71/91/00 8S100 9S100 9S200
R	Contingency /War Planner	Identifies positions on manpower documents and airmen serving in or qualified to serve in positions requiring functional area expertise, and experience and training in contingency or war planning functions. Prefix R is affixed to duty and control AFSCs when airmen are assigned to authorized prefix R positions, and retained only so long as they are incumbents. It is awarded and affixed to the awarded AFSC (P/2/3/4 AFSC) when airmen demonstrate contingency or warplanner qualifications. It is retained until changed or revoked by the AFSC career field manager with the concurrence of HQ USAF/XOXW. An airman must satisfy one of the following sets of criteria for award of this prefix: 1.1. Successful completion of one or more of the following courses and have 6 months' experience in a prefix R position: 1.1.1. MCADRE002 - Contingency/Wartime Planning Course, PDS Code 82U; 1.1.2. MCADRE003 - Joint Doctrine Air Campaign Course, PDS Code W1B; 1.1.3. E6AZU49131 009 - Worldwide Military Command and Control System Intercomputer Network (H6000-CDT), PDS Code 11J; 1.1.4. 4925 - Joint Operation Planning and Execution System User Course (Basic) - PDS Code W5J; 1.1.5. J5OZO9000 003 - Joint Medical Planners Course (JMPC) - PDS Code XH6; or 1.2. 12 months' experience in a prefix R position. ***NOTE***: Changes to this prefix must be approved by HQ USAF/XOXW.
T	Formal Training Instructor	Identifies positions on manpower documents and airmen serving in, qualified to serve in, or receiving formal Instructor training to qualify to serve in formal training instructor positions. Affix prefix T to the duty AFSC when airmen are assigned to authorized prefix T positions and retained only so long as they are incumbents. Affix prefix T to the control AFSC when airmen are assigned to these positions, selected for entry into a formal training instructor course leading to such assignment, or selected for instructor duty according to AFI 36-2110, *Assignments* and AFCAT 36-2223, *USAF Formal Schools.* Withdraw the prefix from the control AFSC of airmen who fail to complete training. Retain the prefix only so long as airmen are incumbents of prefix T positions.

Prefix	Title	Explanation
T	Continued	Award and affix the prefix to awarded AFSC (P/2/3/4AFSC) in which duty is being performed when airmen demonstrate formal training instructor qualifications. Retain the prefix as long as airmen remain qualified. Withdrawal authority for this prefix is major command or higher. An airman must meet the following prerequisite for award of this prefix: Possess at least the skill level of the specialty in which the airman will instruct, and complete training determined necessary by the supervisor for the position to which the airman is assigned.
V	Automated Functional Applications Analyst/Monitor	Identifies positions on manpower documents and airmen serving in, qualified to serve in, or receiving formal training to qualify to serve in positions requiring functional area expertise with the ability to design, analyze, supervise, or monitor the computer applications of automated Air Force functions. Do not use this prefix to identify positions or personnel requiring full qualification in the Communications-Computer Systems Career Field, and using AFSCs 3CXXX is more appropriate. Automated functional applications analysts functionally analyze requirements, define objectives, and determine how they can be met more effectively by automated methods; assist in developing complete plans; and conduct general and detailed flow charts and block diagrams to graphically show systems logic and processing flow from initial input to final output. Affix prefix V to duty and control AFSCs when airmen are assigned to authorized prefix V positions. Retain the prefix only so long as they are incumbents. Award and affix the prefix to awarded AFSC (P/2/3/4AFSC) when airmen demonstrate automated systems analyst/monitor qualification. Retain the prefix as long as airmen remain qualified. Withdrawal authority for this prefix is major command or higher. An airman must meet the following prerequisites for the award of this prefix: 1. Possess an AFSC authorized for use with this prefix. 2. Have a minimum of 24 months' experience in an authorized prefix V position. 3. Have a minimum of 24 months' experience in designing, analyzing, supervising, or monitoring functional area automated systems while serving in an AFSC authorized in the particular function. Experience must include performing system feasibility or application studies for that automated system. Full qualification in Prefix G, Automated Systems Programming Craftsman, may satisfy 12 months' experience necessary for award of prefix V. Capability to perform as a system analyst associated with the automated function is certified by the unit commander or supervisor of the automated system. 4. Completion of a formal systems analyst course is desirable.

Prefix	Title	Explanation
V	Continued	Use Prefix V with only the following AFSCs: 1C052/72/92/00 1C3X1/00 1C551/71/91/00 1C651/71/91/00 1N051/71/91/00 1N151/71/91 1W051/91/00 1W051A/71A 2A000 2A151/71/90 2A390/00 2A353A/B/J 2A373A/B/J 2A490 2A590 2A551J/K/L 2A571 2E000 2E051/71/91 2E052/72 2E053/73 2E151/71/90 2E152/72 2E153/73 2E154/74 2E251/71/91 2E351/71/91 2E451/71/91 2E651/71/90 2E652/72 2E653/73 2E790/00 2E751/71 2E753/73 3E000 3E631/71/91 3M051/71/91/00 3N090/00 3N051/71 3N052/72 3U0X1/00 3S090/00 4A071/91/00 4A171/91/00 4B071/91/00 4P071/91/00 4T090/00 4T071 4Y071/90/00 6F051/71/91/00 7S000 7S0X1
X	Aircrew	Identifies positions on manpower documents and airmen serving in or qualified to serve in aircraft crew positions. Affix prefix X to the duty AFSC when airmen are assigned to aircrew positions on flying status and retained only so long as they are incumbents. Affix prefix X to the control AFSC when airmen are assigned to aircrew positions on flying status and retained only so long as they are incumbents. Award and affix the prefix to the awarded AFSC (P/2/3/4AFSC) when airmen demonstrate aircrew qualification. Retain the prefix as long as airmen remain qualified, whether or not they are on flying status. An airman must meet the following prerequisites for award this prefix: 1. Possess an AFSC authorized for use with this prefix. 2. Perform satisfactorily in an authorized aircrew position requiring participation in frequent and regular aerial flights, or be a graduate of a formal training course leading to qualification in aircrew duties. 3. Meet physical standards for aircrew duty according to AFI 48-123, *Medical Examination and Standards,* Class III medical standards. 4. Qualify for aviation service according to *AFI 11-402, Aviation and Parachutist Service, Aeronautical Ratings and Badges*.

Prefix	Title	Explanation			
X	Continued	Use prefix X with only the following AFSCs:			
		1A0X1/00	1A190/00	1A1X1B/C	1A2X1/00
		1A3X1/00	1A4X1/00	1A451D/71D	1A500
		1A5X1	1C351/71/91/00	1C451/71	1N051/71/91/00
		1N151/71/91	1N2X1/00	1N390	1N3XXX
		1N4X1	1N551/71/91/00	1N6X1/00	1T2X1/00
		1W0X1/00	1W031A/51A/71A	2A071/90/00	2A190
		2A1X1/X2/X3	2A1X7	2A371	2A490
		2A4X1/X2/X3	2A551J/K/L	2A571	2A600
		2A690/92	2A6X6	2E1X1/X2	2E231B/51B
		2E3X1	2E8X1/00	2M0X1	2M032/52/72
		2W131X	2W151/71/91	3A000	3A051/71/91
		3C052/72	3V090	3V052/72	3V053/73
		4N091/00	4N031/51/71	8A000	8E000
		8S100	9L000	9S100	9S200

Attachment 3

REPORTING IDENTIFIERS

Reporting Identifiers (RI) identify authorizations and individual airmen who, for any reason, are not identifiable in the classification structure and for whom specialty descriptions are not written. The following is a complete listing of the reporting identifiers.

REPORTING IDENTIFIERS	
Identifier	**Title**
9A000	Airman Awaiting Retraining - Disqualified for Reasons Beyond Control
9A100	Airman Awaiting Retraining - Disqualification for Reasons Within Control
9A200	Airman Awaiting Discharge, Sep, Retire for Reasons Within Their Control
9A300	Airman Awaiting Discharge, Sep, Retire for Reasons Beyond Their Control
9C000	Chief Master Sergeant of the Air Force
9D000	Dormitory Manager
9E000	Senior Enlisted Advisor
9G000	Airman Aide
9J000	Prisoner
9L000	Interpreter/Translator
9P000	Patient
9R000	Civil Air Patrol (CAP)-USAF Reserve Assistant NCOs
9S100	Applied Geophysics
9S200	Applied Sciences
9T000	Basic Airman
9T100	Officer Trainee
9T200	Precadet Assignee
9U000	Airman Ineligible for Local Utilization
9U100	Unallotted Airman Authorization

1. 9A000, Airman Awaiting Retraining -- Disqualified for Reasons Beyond Control. Use this identifier to report the control and primary AFSCs of an airman who loses qualification in a former specialty for reasons over which the airman had no control, who possesses no other awarded AFSC, and who is awaiting retraining action. Related DoD Occupational Subgroup: 920.

2. 9A100, Airman Awaiting Retraining -- Disqualified for Reasons Within Control. Use this identifier to report the control and primary AFSCs of an airman who loses qualification in a former specialty for reasons over which the airman had control, who possesses no other awarded AFSC, and who is awaiting retraining action. Related DoD Occupational Subgroup: 920.

3. 9A200, Airman Awaiting Discharge, Separation, or Retirement. Use this identifier to report control and primary AFSCs when an individual has lost qualification in a specialty, possesses no other awarded AFSC, and:
3.1. is being medically evaluated for retention;
3.2. is being processed for involuntary discharge; or
3.3. has an approved date of discharge, separation, or retirement within 6 months and has declined to obtain required retainability for retraining. Also, use this identifier to report the control and duty AFSCs of an individual who is on leave awaiting appellate review of a court-martial conviction which includes unsuspended dismissal, dishonorable discharge, or bad conduct discharge (duty status code 52). Related DoD Occupational Subgroup: 920.

4. 9A300, Airman Awaiting Discharge, Separation, or Retirement for Reasons Beyond Their Control. Use this identifier to report control and primary AFSCs when an individual lost qualification in a specialty, possesses no other awarded AFSC, and:
4.1. is disqualified for reasons beyond their control, and is being medically evaluated for retention; or
4.2. is a second term or career airman who has an approved date of discharge, separation, or retirement (due to high year or tenure) within 18 months. Related DoD Occupational Subgroup: 920.

5. 9C000, Chief Master Sergeant of the Air Force. Use this identifier to report the awarded (primary/2/3/4), control, and duty AFSCs of the individual performing as Chief Master Sergeant of the Air Force. The Chief Master Sergeant of the Air Force serves as a member of the Commander in Chief's staff to advise and assist in matters concerning Air Force enlisted members. Related DoD Occupational Subgroup: 521.

6. 9D000, Dormitory Manager. Use this identifier to report the control and duty AFSCs of individuals performing full time as a manager of an enlisted dormitory. The Dormitory Manager is responsible for dormitory waiting list, detail personnel, post-cleanup inspection of common-use areas, keys, supplies, furniture, equipment, annual budget estimates, and building management. Only change an individual's Duty AFSC when actually assigned to a 9D000 position. Related DOD Occupational Subgroup: 850.

7. 9E000, Senior Enlisted Adviser. Use this identifier to report the awarded (primary/2/3/4), control, and duty AFSCs of an individual performing full time as a senior enlisted adviser. The senior enlisted adviser serves as a member of the commander's staff to advise and assist in matters concerning enlisted members of the command or organization. Related DoD Occupational Subgroup: 521.

8. 9G000, Airman Aide. Use this identifier to report the awarded (primary/2/3/4), control, and duty AFSCs of an airman performing principal duty as an airman aide when authorized according to AFI 36-2123, *Management of Enlisted Aides*. Related DoD Occupational Subgroup: 801.

9. 9J000, Prisoner. Use this identifier to report the duty AFSC of a prisoner in confinement who has not been dropped from roll. Related DoD Occupational Subgroup: 902.

10. 9L000, Interpreter/Translator. Use this identifier to report the awarded (primary/2/3/4), control, and duty AFSCs of an airman performing duty as a foreign language interpreter or translator. Related DoD Occupational Subgroup: 241.

11. 9P000, Patient. Use this identifier to report the duty AFSC of an airman assigned to a hospital in patient pipeline status. Do not change the control or awarded AFSCs. Related DoD Occupational Subgroup: 901.

12. 9R000, Civil Air Patrol (CAP)-USAF Reserve Assistance NCO. Use this identifier to report the awarded (primary/2/3/4), control, and duty AFSCs of Individual Ready Reserve enlisted members assigned duty to assist in mission accomplishment of military oversight and guidance to the Civil Air Patrol. Related DoD Occupation Subgroup: 520, 556.

13. 9S100, Applied Geophysics. Use this identifier to report the awarded (primary/2/3/4), control, and duty AFSCs of an airman performing data collection, analysis, observation, study, experimentation, maintenance, and research and development on specialized geophysics equipment and systems. Related DoD Occupational Subgroup: 198.

14. 9S200, Applied Sciences. Use this identifier to report the awarded (primary/2/3/4), control, and duty AFSCs of an airman performing data collection, analysis, observation, study, experimentation, maintenance, and research and development on specialized laboratory equipment and systems. Related DoD Occupational Subgroup: 491.

15. 9T000, Basic Airman. Use this identifier to report the primary, control, and duty AFSCs of an airman who has not been awarded an AFS and to report the duty of an airman attending basic training. Related DoD Occupational Subgroup: 950.

16. 9T100, Officer Trainee. Use this identifier to report the control and duty AFSCs of an airman attending Officer Training School, the Airman Education and Commissioning Program, or Phases I and II of the Physician Assistant Training Program. Related DoD Occupational Subgroup: 911.

17. 9T200, Pre-cadet Assignee. Use this identifier to report the duty AFSC of an airman who is assigned duty as a precadet assignee. Related DoD Occupational Subgroup: 911.

18. 9U000, Airman Ineligible for Local Utilization. Use this identifier to report the control AFSC of an individual who has been determined ineligible to perform duty in an awarded AFSC at the current duty location and has been approved by HQ AFPC, Airman Assignments (DPAA), for retraining as a surplus airman. Only HQ AFPC/DPAA will update RI 9U000 in the personnel data system. Related DoD Occupational Subgroup: 920.

19. 9U100, Unallotted Airman Authorization. Use this identifier to report those authorizations within bulk allotments of airman personnel that are not specifically allocated by AFS. Related DoD Occupational Subgroup: 950.

Attachment 4

SPECIAL DUTY IDENTIFIERS

INTRODUCTION

Special Duty Identifiers (SDI) identify authorizations for airmen assigned to and performing an actual group of tasks on a semi-permanent or permanent duty basis. These duties are unrelated to any specific career field at this time and do not provide a normal career progression pattern. No significance as to the interrelationship of these SDIs is implied from their grouping within this section. The following is a complete listing of the special duty identifiers.

SPECIAL DUTY IDENTIFIERS	
Identifier	**Title**
8A000	In-Fight Passenger Service Specialist
8B000	Military Training Instructor
8B100	Military Training Manager
8C000	Family Support Center
8D000	Linguist Debriefer/Interrogator
8E000	Research & Development Technician
8F000	First Sergeant
8G000	USAF Honor Guard
8J000	Correctional Custody Supervisor
8M000	Postal
8P000	Courier
8P100	Defense Attache
8R000	Recruiter
8S000	Missile Facility Manager
8S100	Sensor Operator
8T000	PME Instructor

Attachment 5

AIRCREW OPERATIONS CAREER FIELD (1A)

INTRODUCTION

The Aircrew Operations Career Field encompasses the functions of program formulating, policy planning, inspecting, training and directing, and performing combat and operations pertinent to enlisted primary aircrew activities. Included are supervising and performing primary aircrew duties pertinent to in-flight refueling systems; performing aircraft flight engineer activities; loading, restraining, and off-loading cargo on military aircraft; airdropping cargo and personnel; performing airborne communications systems operations activities; and performing aircrew duties associated with operating airborne command and control systems equipment. These duties include resolving airborne systems equipment technical problems that involve computer systems, radar and radio systems, and surveillance systems operations activities. The following is a complete listing of AFSCs for the Aircrew Operations Career Field.

AIRCREW OPERATIONS (1A)

Input or Helper Level		Apprentice or Semiskilled Level		Journeyman or Skilled Level		Craftsman or Advanced Level		Superintendent Level		Chief Enlisted Manager Level	
1A011	In-Flight Refueling	1A031	In-Flight Refueling	1A051	In-Flight Refueling	1A071	In-Flight Refueling	1A091	In-Flight Refueling	1A000	In-Flight Refueling
1A111	Flight Engineer	1A131	Flight Engineer	1A151	Flight Engineer	1A171	Flight Engineer	1A190	Flight Engineer	1A100	Flight Engineer
B	Helicopter	B	Helicopter	B	Helicopter	B	Helicopter				
C	Perform-ance Qualified	C	Performance Qualified	C	Performance Qualified	C	Performance Qualified				
1A211	Aircraft Loadmaster	1A231	Aircraft Loadmaster	1A251	Aircraft Loadmaster	1A271	Aircraft Loadmaster	1A291	Aircraft Loadmaster	1A200	Aircraft Loadmaster
1A311	Airborne Comm Systems	1A331	Airborne Comm Systems	1A351	Airborne Comm Systems	1A371	Airborne Comm Systems	1A391	Airborne Comm Systems	1A300	Airborne Comm Systems
1A411	Airborne Battle Manage-ment	1A431	Airborne Battle Management	*1A451	Airborne Battle Management	*1A471	Airborne Battle Management	1A491	Airborne Battle Manage-ment s	1A400	Airborne Battle Manage-ment
				D	Weapons Dir	D	Weapons Dir				
1A511	Airborne Missions Systems	1A531	Airborne Missions Systems	1A551	Airborne Missions Systems	1A571	Airborne Missions Systems	1A591	Airborne Missions Systems	1A500	Airborne Missions Systems

CEM Code 1A200
AFSC 1A291, Superintendent
AFSC 1A271, Craftsman
Journeyman AFSC 1A251
Apprentice AFSC 1A231
Helper AFSC 1A211

AIRCRAFT LOADMASTER
(Changed 30 Apr 98)

1. Specialty Summary. Accomplishes loading and off loading aircraft functions; performs pre-flight and post-flight of aircraft and aircraft systems. Performs loadmaster aircrew functions, computes weight and balance and other mission specific qualification duties. Provides for safety and comfort of passengers and troops, and security of cargo, mail, and baggage during flight. Conducts cargo and personnel airdrops. Supervises loadmaster activities and related functions, including aircraft loading and off loading activities, cargo handling, and restraint. Related DoD Occupational Subgroup: 050.

2. Duties and Responsibilities:
2.1. Reviews aircraft weight and balance records and cargo manifest. Determines quantity of cargo and passengers or troops to be loaded and proper placement in aircraft. Computes load and cargo distribution. Computes weight and balance, and determines the amount of weight to be placed in each compartment or at each station. Considers factors such as fuel load, aircraft structural limits, and emergency equipment required.
2.2. Accomplishes initial pre-flight of aircraft according to flight manuals; pre-flights specific aircraft systems such as restraint rail and airdrop equipment. Operates radios, pre-flights aerospace ground equipment, and applies external power to the aircraft. Performs in-flight and special mission specific duties as required.
2.3. Supervises aircraft loading and off loading. Uses equipment such as 25K, 40K, and 60K loaders; forklifts; and winches. Ensures cargo and passengers are loaded according to load distribution plan. Directs application of restraint devices such as restraint rails, straps, chains, and nets to prevent shifting during flight. Checks cargo, passengers, and troops against manifests.
2.4. Ensures availability of fleet service equipment such as blankets and pillows. Signs for and stows in-flight meals. Briefs passengers and troops on use of seat belts, facilities, and border clearance requirements. Dispenses meals and refreshments. Demonstrates use of emergency equipment such as oxygen masks and life vests, and ensures access to escape hatches. Monitors cargo and passengers in-flight and assists passengers as required.
2.5. Conducts cargo and personnel airdrops according to directives. Attaches extraction parachutes to cargo and platforms. Inspects cargo and platforms, extraction systems and connects static lines. Checks tiedowns, parachutes, containers, suspension systems, and extraction systems to ensure proper cargo extraction or release. Operates aircraft personnel airdrop system and supervises paratroopers exiting the aircraft.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: types, capacities, and configuration of transport aircraft; arithmetic; emergency equipment and in-flight emergency procedures; personal equipment and oxygen use; communications; current flying directives; interpreting diagrams, loading charts, and technical publications; border agency clearance dispensing and preserving food aboard aircraft; and cargo restraint techniques.
3.2. Education. For entry into this specialty, completion of high school with courses in mathematics or general science is desirable.
3.3. Training. Completion of the Aircraft Loadmaster course is mandatory for award of AFSC 1A231.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 1A251. Qualification in and possession of AFSC 1A231. Also, knowledge of types, capacities, and configuration of transport aircraft; weight and balance factors, arithmetic; cargo restraint techniques; emergency equipment and in-flight emergency procedures; using personal equipment and oxygen, communications; current flying directives; interpreting diagrams, loading charts, and applicable technical publications; border agency clearance requirements and forms; principles of dispensing and preserving food aboard aircraft; operation of cargo loading equipment; and cargo and personnel airdrop techniques and equipment.
3.4.2. 1A271. Qualification in and possession of AFSC 1A251. Also, experience in types, capacities, and configuration of transport aircraft; airdrop techniques; weight and balance factors; arithmetic; emergency equipment and in-flight emergency procedures; personal equipment and oxygen use; communications; current flying directives; interpreting diagrams, loading charts, and applicable technical publications; border agency clearance requirements and forms; principles of dispensing and preserving food aboard aircraft; and cargo restraint techniques.
3.4.3. 1A291. Qualification in and possession of AFSC 1A271. Also, experience in directing functions such as loading military cargo aircraft and establishing procedures for maintaining related records.
3.5. Other: The following are mandatory as indicated:

3.4.1. For entry, award, and retention of these AFSCs:
3.4.1.1. Physical qualification for aircrew duty according to AFI 48-123, *Medical Examination and Standards,* Class III medical standards.
3.4.1.2. Qualification for aviation service according to *AFI 11-402, Aviation And Parachutist Service, Aeronautical Ratings and Badges*.
3.4.2. For award and retention of AFSCs 1A231/51/71/91/00, eligibility for a secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

CEM Code 1A400
AFSC 1A491, Superintendent
AFSC 1A471*, Craftsman
Journeyman AFSC 1A451*
Apprentice AFSC 1A431
Helper AFSC 1A411

AIRBORNE BATTLE MANAGEMENT SYSTEMS
(Changed 30 Apr 98)

1. Specialty Summary. Operates, evaluates, and manages airborne battle management systems radar electronic identification, passive and active advanced sensors; electronic attack and electronic protect (EA/EP) systems and operations activities. Interprets computer generated displays and alarms. Gathers, records, displays and distributes mission information. Maintains communications nets with ground, air, and maritime units. Performs aircrew battle management functions. Provides radar control of air weapons. Identifies airborne objects and interfaces with other units. Performs and assists in mission planning. Maintains publications and currency items. Maintains and supervises communication nets with external agencies. Related DoD Occupational Subgroup: 221.

2. Duties and Responsibilities:

2.1. Operates airborne battle management systems surveillance and mission equipment. Makes sensor and battle staff console operational checks, and advises airborne supervisor of status. Initiates and maintains surveillance of air, ground, and maritime objects. Interprets computer-generated displays, data and alarms, and takes switch actions. Compares track positions with flight data and data base files to determine track identification. Performs and assists in mission planning and breaking air tasking orders. Formats initialization data. Monitors radio communications. Passes and receives immediate air request net data. Displays, records, and distributes operational information. Receives, transmits, and relays encoded and decoded messages from ground or other airborne battle management agencies. Uses coordinate reference systems. Monitors and maintains air situation display boards. Coordinates mission profile requirements with internal and external agencies. Prepares reports, and maintains logs, forms, and data base files. Performs preflight, in-flight, and postflight duties.

2.2. Gathers, displays, records, and distributes mission information. Gathers intelligence and threat data, and updates data base files. Displays sensor, identification, weather, and other mission data for battle managers. Records special interest track and mission information. Reports unusual weather, emergency signals, EA/EP or electronic support measures (ESM) observations. Maintains status of mission aircraft, targets, and air tasking order information. Distributes alert status and records information.

2.3. Performs EP and electronic support measures (ESM) functions. Uses EP techniques to degrade the effectiveness of electronic warfare activities or other external interference. Recommends procedures and techniques to improve EP effectiveness. Configures and uses ESM and passive detection equipment to assist in determining the location and identification of potential targets to eliminate or reduce the effects of EA. Maintains coordination with exterior agencies.

2.4. Performs weapons director functions to provide direction for friendly Air Forces to intercept, identify, and engage airborne, ground and maritime targets . Maintains proficiency in control of aircraft conducting missions such as interception, interdiction, close air support, search and rescue, combat air patrol, reconnaissance, offensive or defensive counter air, suppression of enemy air defenses and aerial refueling rendezvous. Responsible for safety of flight for aircraft under control.

2.5. Coordinates and exchanges air movement and identification information. Maintains liaison with air defense artillery, surface, and naval fire units to ensure safe passage of friendly air traffic, and to effectively use air weapons resources. Coordinates with air traffic control agencies concerning aircraft departure, enroute flight, safe recovery operations, and airspace control. Coordinates with aerospace rescue and recovery services and operations. Maintains liaison with weather forecasting and reporting agencies to obtain data required for mission execution. Relays threat warning data to aircrews and other agencies.

2.6. Supervises, evaluates, and monitors display of air, ground, and maritime activity. Evaluates individual aircrew in-flight performances and systems capabilities, and recommends improvements. Coordinates with airborne, ground, and maritime agencies in distributing and relaying operational threat and identification data. Monitors employment of assigned air assets and operations. Compiles operational data for mission reports. Identifies and corrects faulty operational techniques. Reviews trend analysis.

3. Specialty Qualifications:

3.1. Knowledge:

3.1.1. For award of AFSC 1A4X1X, knowledge is mandatory of: radar operation fundamentals, characteristics, and limitations of airborne battle management, surveillance, and mission systems; target detection and tracking capabilities; computer-generated console situation and tabular displays, electronically generated data, and air tasking orders; receiving, recording, and relaying operational threat data; identification procedures and techniques; EA/EP or ESM functions; data link requirements; communications systems; emergency procedures and equipment; maintaining publications; emergency action procedures; and theater air activities.

3.1.2. For award of AFSC 1A471D, knowledge is mandatory of air weapons control procedures and techniques, and aircraft performance characteristics and armament.

3.2. Education. For entry into this specialty, completion of high school or general educational development equivalency is mandatory.

3.3. Training. The following training is mandatory for award of the AFSC indicated:

3.3.1. 1A431. Completion of the basic airborne battle management systems course.

3.3.2. 1A451D. Completion of AWACS weapons director training.

3.4. Experience. The following experience is mandatory for award of the AFSC indicated:

3.4.1. 1A451. Qualification in and possession of AFSC 1A431. Experience in functions such as target detecting, tracking, reporting target information or, receiving, displaying, recording, and relaying threat command, control, and intelligence data from airborne battle management system functions and activities.

3.4.2. 1A451D. Mission ready certification as a weapons director.

3.4.3. 1A471. Qualification in and possession of AFSC 1A451. Also, experience performing or supervising, or airborne battle management system functions and activities.

3.4.4. 1A471D. Qualification in and possession of AFSC 1A451D. Experience required for annual qualification and certification as a mission ready weapons controller.

3.4.5. 1A491. Qualification in and possession of 1A471/71D. Experience in managing airborne battle management system functions and activities.

3.5. Other. The following are mandatory as indicated:

3.5.1. For entry, award, and retention of AFSCs 1A4X1/X1D:

3.5.1.1. Physical qualification for aircrew duty according to AFI 48-123, *Medical Examination and Standards*, Class III medical standards.

3.5.1.2. Qualification for aviation service according to *AFI 11-402, Aviation And Parachutist Service, Aeronautical Ratings and Badges*.

3.5.2. For entry into AFSC 1A451D individual must be an E-4 or above and possess AFSC 1A451.

3.5.3. For entry, award, and retention of AFSCs 1A451D/71D, physical qualification for Weapons Director duty according to AFI 48-123, *Medical Examination and Standards*.

3.5.4. For award and retention of AFSCs 1A431/51/51D/71/71D/91/00, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

4. *Specialty Shredouts

Suffix	*Portion of AFS to Which Related*
D	Weapons Director

NOTE: Shredout D is applicable to the 5- and 7-skill levels only.

Attachment 6

COMMAND AND CONTROL SYSTEMS OPERATIONS CAREER FIELD (1C)

INTRODUCTION

The Command and Control Systems Operations Career Field encompasses the functions involved in aerospace surveillance and aerospace vehicle detection, including missile warning systems, controlling, and plotting. This field includes control tower and airways operations; ground-controlled approach procedures; operation of all types of ground radar and related communications equipment, except weather equipment; either manual or semiautomatic plotting functions, or both, performed in aircraft filter centers and intercept control centers; establishing and providing air traffic control services in forward operating areas; operation of space surveillance and detecting and tracking equipment; operation of airborne search and height finding type of radar equipment; airfield management functions of dispatching, maintaining flight plan processing area of flight information data, and coordinating base operations and air operations functions with air traffic control agencies; operations systems management functions of maintaining custodial control and accountability of flight records, preparing and processing aeronautical orders and military pay orders, and compiling, recording, and auditing input data for resource management data systems; performance of command and control functions; operation of electronic warfare countermeasures equipment; functions of operating radio transceivers and associated equipment; performing preventive maintenance on radio communications and related equipment; submitting close air support, tactical air reconnaissance, and airlift mission requests; assisting forward air controllers in tactical air mission planning and operation; and providing terminal strike control as interim substitutes for forward air controllers in emergency conditions. The following is a complete listing of AFSCs for the Command Control Systems Operations.

COMMAND CONTROL SYSTEMS OPERATIONS (1C)

Input or Helper Level		Apprentice or Semiskilled Level		Journeyman or Skilled Level		Craftsman or Advanced Level		Superintendent Level		Chief Enlisted Manager Level	
1C011	Airfield Mgt	1C031	Airfield Mgt	1C051	Airfield Mgt	1C071	Airfield Mgt	1C091	Airfield Mgt	1C000	Air Operations
1C012	Ops Resource Mgt	1C032	Ops Resource Mgt	1C052	Ops Resource Mgt	1C072	Ops Resource Mgt	1C092	Ops Resource Mgt		
1C111	Air Traffic Con	1C131	Air Traffic Con	1C151	Air Traffic Con	1C171	Air Traffic Con	1C191	Air Traffic Con	1C100	Air Traffic Con
1C211	Combat Control	1C231	Combat Control	1C251	Combat Control	1C271	Combat Control	1C291	Combat Control	1C200	Combat Control
1C311	Command and Control	1C331	Command and Control	1C351	Command and Control	1C371	Command and Control	1C391	Command and Control	1C300	Command and Control
1C411	Tac Air Comd & Con	1C431	Tac Air Comd & Con	1C451	Tac Air Comd & Con	1C471	Tac Air Comd & Con	1C491	Tac Air Comd & Con	1C400	Tac Air Comd & Con
1C511	Aerosp Con & Warning Sys	1C531	Aerosp Con & Warning Sys	1C551	Aerosp Con & Warning Sys	1C571	Aerosp Con & Warning Sys	1C591	Aerosp Con & Warning Sys	1C500	Aerosp Con & Warning Sys
A	Manual Sys	A	Manual Sys	D	Weapons Dir	D	Weapons Dir				
B	SOCC	B	SOCC								
C	TACS	C	TACS								
1C611	Space Sys Ops	1C631	Space Sys Ops	1C651	Space Sys Ops	1C671	Space Sys Ops	1C691	Space Sys Ops	1C600	Space Sys Ops

Attachment 7

INTELLIGENCE CAREER FIELD (1N)

INTRODUCTION

The Intelligence Career Field encompasses functions involved in collecting, producing, and distributing data that have strategic, tactical, or technical value from an intelligence viewpoint. This field includes functions necessary to maintain information security and language translation and interpretation.

Excluded from this career field are functions of collecting, collating, interpreting, and distributing general information of primary concern to other career fields. These functions are contained in the specific career field concerned. The following is a complete listing of AFSCs for the Intelligence Career Field.

INTELLIGENCE (1N)											
Input or Helper Level		**Apprentice or Semiskilled Level**		**Journeyman or Skilled Level**		**Craftsman or Advanced Level**		**Superintendent Level**		**Chief Enlisted Manager Level**	
1N011	Intel Applications	1N031	Intel Applications	1N051	Intel Applications	1N071	Intel Applications	1N091	Intel Applications	1N000	Intel Appl & Exploitation
1N111	Imagery Analysis	1N131	Imagery Analysis	1N151	Imagery Analysis	1N171	Imagery Analysis	1N191	Imagery Analysis		
1N211	Signals Intel Production	1N231	Signals Intel Production	1N251	Signals Intel Production	1N271	Signals Intel Production	1N291	Signals Intel Production	1N200	Signals Intel Analysis
1N311	Germanic Crypto Linguist	1N331	Germanic Crypto Linguist	1N351	Germanic Crypto Linguist	1N371	Germanic Crypto Linguist	1N390	Cryptologic Linguist		
A	German	A	German	A	German	A	German				
B	Dutch	B	Dutch	B	Dutch	B	Dutch				
C	Flemish	C	Flemish	C	Flemish	C	Flemish				
D	Swedish	D	Swedish	D	Swedish	D	Swedish				
E	Afrikaans	E	Afrikaans	E	Afrikaans	E	Afrikaans				
1N312	Romance Crypto Linguist	1N332	Romance Crypto Linguist	1N352	Romance Crypto Linguist	1N372	Romance Crypto Linguist				
A	Spanish (Latin American)	A	Spanish (Latin American)	A	Spanish (Latin American)	A	Spanish (Latin American)				
B	Portuguese (Latin American)	B	Portuguese (Latin American)	B	Portuguese (Latin American)	B	Portuguese (Latin American)				
C	French	C	French	C	French	C	French				
D	Italian	D	Italian	D	Italian	D	Italian				
E	Romanian	E	Romanian	E	Romanian	E	Romanian				
F	Haitian-Creole	F	Haitian-Creole	F	Haitian-Creole	F	Haitian-Creole				
G	Molodovan	G	Molodovan	G	Molodovan	G	Molodovan				
1N313	Slavic Crypto Linguist	1N333	Slavic Crypto Linguist	1N353	Slavic Crypto Linguist	1N373	Slavic Crypto Linguist				
A	Russian	A	Russian	A	Russian	A	Russian				
B	Polish	B	Polish	B	Polish	B	Polish				
C	Czech	C	Czech	C	Czech	C	Czech				
D	Serbo-Croat	D	Serbo-Croat	D	Serbo-Croat	D	Serbo-Croat				
E	Russian	E	Russian	E	Russian	E	Russian				

INTELLIGENCE (1N)

Input or Helper Level		Apprentice or Semiskilled Level		Journeyman or Skilled Level		Craftsman or Advanced Level		Superintendent Level		Chief Enlisted Manager Level	
	(White)		(White)		(White)		(White)				
F	Hungarian	F	Hungarian	F	Hungarian	F	Hungarian				
G	Lithuanian	G	Lithuanian	G	Lithuanian	G	Lithuanian				
H	Slovenian	H	Slovenian	H	Slovenian	H	Slovenian				
J	Bulgarian	J	Bulgarian	J	Bulgarian	J	Bulgarian				
K	Ukrainian	K	Ukrainian	K	Ukrainian	K	Ukrainian				
L	Macedonian	L	Macedonian	L	Macedonian	L	Macedonian				
1N314	Far East Crypto Linguist	1N334	Far East Crypto Linguist	1N354	Far East Crypto Linguist	1N374	Far East Crypto Linguist				
A	Chinese (Mandarin)	A	Chinese (Mandarin)	A	Chinese (Mandarin)	A	Chinese (Mandarin)				
B	Vietnamese	B	Vietnamese	B	Vietnamese	B	Vietnamese				
C	Thai	C	Thai	C	Thai	C	Thai				
D	Cambodian	D	Cambodian	D	Cambodian	D	Cambodian	1N390	Cryptologic Linguist	1N200	Sig Intel Analysis
E	Lao	E	Lao	E	Lao	E	Lao				
F	Japanese	F	Japanese	F	Japanese	F	Japanese				
G	Korean	G	Korean	G	Korean	G	Korean				
H	Chinese (Cantonese)	H	Chinese (Cantonese)	H	Chinese (Cantonese)	H	Chinese (Cantonese)				
J	Tagalog	J	Tagalog	J	Tagalog	J	Tagalog				
1N315	Mid East Crypto Linguist	1N335	Mid East Crypto Linguist	1N355	Mid East Crypto Linguist	1N375	Mid East Crypto Linguist				
A	Arabic	A	Arabic	A	Arabic	A	Arabic				
B	Arabic (Syrian)	B	Arabic (Syrian)	B	Arabic (Syrian)	B	Arabic (Syrian)				
C	Hebrew	C	Hebrew	C	Hebrew	C	Hebrew				
D	Persian	D	Persian	D	Persian	D	Persian				
E	Turkish	E	Turkish	E	Turkish	E	Turkish				
F	Greek	F	Greek	F	Greek	F	Greek				
G	Indonesian	G	Indonesian	G	Indonesian	G	Indonesian				
H	Hindi-Urdu	H	Hindi-Urdu	H	Hindi-Urdu	H	Hindi-Urdu				
J	Armenian	J	Armenian	J	Armenian	J	Armenian				
K	Azeri	K	Azeri	K	Azeri	K	Azeri				
L	Pushtu	L	Pushtu	L	Pushtu	L	Pushtu				
M	Georgian	M	Georgian	M	Georgian	M	Georgian				
N	Tadzhik	N	Tadzhik	N	Tadzhik	N	Tadzhik				
P	Kazakh	P	Kazakh	P	Kazakh	P	Kazakh				
Q	Turkmen	Q	Turkmen	Q	Turkmen	Q	Turkmen				
R	Uzbek	R	Uzbek	R	Uzbek	R	Uzbek				
1N411	Signals Intel Analysis	1N431	Signals Intel Analysis	1N451	Signals Intel Analysis	1N471	Signals Intel Analysis	1N491	Signals Intel Analysis	1N200	Sig Intel Analysis
1N511	Electronic Sig Intel Exploit	1N531	Electronic Sig Intel Exploit	1N551	Electronic Sig Intel Exploit	1N571	Electronic Sig Intel Exploit	1N591	Electronic Sig Intel Exploit	1N500	Electronic Sig Intel Exploit
1N611	Electronic Sys Security	1N631	Electronic Sys Security	1N651	Electronic Sys Security	1N671	Electronic Sys Security Assess	1N691	Electronic Sys Security	1N600	Electronic Sys

INTELLIGENCE (1N)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
Assess	Assess	Assess		Assess	Security Assess

Attachment 8

SAFETY CAREER FIELD (1S)

INTRODUCTION

The Safety Career Field encompasses functions relating to safety education and engineering; contractor and construction safety; mishap investigation, and analysis and trends computations; operations and facilities evaluation, inspection, and survey; risk assessment; consultation with commanders, functional managers, supervisors, and employees; and safety education and awareness promotion at all levels. The following is a complete listing of AFSCs for the Safety Career Field.

SAFETY (1S)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
1S011 Safety	1S031 Safety	1S051 Safety	1S071 Safety	1S091 Safety	1S000 Safety

Attachment 9

AIRCREW PROTECTION CAREER FIELD (1T)

INTRODUCTION

The Aircrew Protection Career Field encompasses the functions involved in instructing aircrew and other designated personnel on the principles, procedures, and techniques of global survival; and locating and penetrating incident areas to provide emergency medical treatment, survival, and evacuation of survivors. Included is the impact of survival and recovery related life support equipment; recovery, evasion, captivity, resistance to exploitation, and escape; instructing aircrew on environmental physiology and use and care of aircrew life support equipment; and issuing, fitting, inspecting, and minor repairing of aircrew life support equipment. The following is a complete listing of AFSCs for the Aircrew Protection.

AIRCREW PROTECTION (1T)											
Input or Helper Level		**Apprentice or Semiskilled Level**		**Journeyman or Skilled Level**		**Craftsman or Advanced Level**		**Superintendent Level**		**Chief Enlisted Manager Level**	
1T011	Survival, Evasion, Resist, & Escape Tng	1T031	Survival, Evasion, Resist, & Escape Tng	1T051	Survival, Evasion, Resist, & Escape Tng	1T071	Survival, Evasion, Resist, & Escape Tng	1T091	Survival, Evasion, Resist, & Escape Tng	1T000	Survival, Evasion, Resist, & Escape Tng
1T111	Aircrew Life Support	1T131	Aircrew Life Support	1T151	Aircrew Life Support	1T171	Aircrew Life Support	1T191	Aircrew Life Support	1T100	Aircrew Life Support
1T211	Pararescue	1T231	Pararescue	1T251	Pararescue	1T271	Pararescue	1T291	Pararescue	1T200	Pararescue

Attachment 10

WEATHER CAREER FIELD (1W)

INTRODUCTION

The Weather Career Field covers the techniques involved in collecting, analyzing, and disseminating weather information, including forecasts of weather conditions in the atmosphere and space. Included are the use of weather observations, atmospheric and space sensing instruments, weather radar and satellite imagery, meteorological computer workstations, and products provided by military, national, and international weather centers.

Excluded is the organizational and field maintenance of electronic and other weather equipment. This function is included in the Communications - Electronics Systems Career Field. The following is a complete listing of AFSCs for Weather Career Field.

WEATHER (1W)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
1W011 Weather	1W031 Weather A Forecaster	1W051 Weather A Forecaster	1W071 Weather A Forecaster	1W091 Weather	1W000 Weather

Attachment 11

MANNED AEROSPACE MAINTENANCE CAREER FIELD (2A)

INTRODUCTION

The Manned Aerospace Maintenance Career Field includes:

Installing, maintaining, calibrating, and repairing avionics photographic and sensor equipment, integrated avionics equipment, and selected conventional avionics equipment; avionics guidance and control systems; communication and navigation systems; airborne communications, early warning radar, and electronic warfare equipment; and avionics support equipment.

Installing, removing, maintaining, and repairing aircrew egress, fuel, and pneudraulic systems including in-flight refueling systems; and maintaining aerospace ground equipment used in direct support of aircraft weapon systems.

Maintaining, repairing, and fabricating fabric and rubber equipment, protective covers, sound proofing, aircraft thermal radiation barriers, upholstery, fabric and rubberized protective clothing, life rafts, life preservers, and other fabric and rubber articles. Inspecting, maintaining, repairing, and packing personnel, deceleration, and cargo and aerial delivery parachutes; and nondestructive inspection of aerospace material parts, components, and pressurized systems.

Maintaining, repairing, and modifying helicopters, turboprop aircraft, propeller aircraft, and jet aircraft.

Maintaining aircraft propellers and jet engines that includes installing, removing, maintaining, and repairing turbojet and ramjet engines when installed on missile systems, and maintaining small, fuel, air turbine auxiliary engines installed on aircraft weapon systems.

Installing, removing, maintaining, and repairing aircraft electrical systems, environmental systems, and other accessory systems installed in aircraft weapon systems. Accessory systems include oxygen, heating, cooling, fire extinguishing, pressurizing, and air turbine auxiliary test systems.

Fabricating, molding, shaping, cutting, and joining metals; repairing metal parts; aircraft structural repairs, metal heat treating, welding, plating, forging, and machining; installing, modifying, and forming plastic articles; and maintaining and repairing fiber-glass-covered aircraft control surfaces; inspecting and preserving aircraft parts and materials. It also includes corrosion control for missile, aircraft, and support systems.

Excluded from this career field are the corrosion control and sheet metal functions associated with civil engineering areas of responsibility. Also, excluded from this career field are those functions associated with maintaining skid-mounted cryogenic storage containers. The following is a complete listing of AFSCs for the Manned Aerospace Maintenance Career Field.

MANNED AEROSPACE MAINTENANCE (2A)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
2A011 Avionics Test Stn & Cmpnt	2A031 Avionics Test Stn & Cmpnt	2A051 Avionics Test Stn & Cmpnt	2A071 Avionics Test Stn & Cmpnt	2A090 Avionics Test Station	2A000 Avionics Systems
A F-15/F-111	A F-15/F-111	A F-15/F-111	A F-15/F-111		
B F-16/F-117/ A-10/B-1B	B F-16/F-117/ A-10/B-1B	B F-16/F-117/ A-10/B-1B	B F-16/F-117/ A-10/B-1B		
2A111 Avionic Sensors Maint	2A131 Avionic Sensors Maint	2A151 Avionic Sensors Maint	2A171 Avionic Sensors Maint	2A190 Conventional Avionics	
2A112 Avionics Guidance & Con Sys	2A132 Avionics Guidance & Con Sys	2A152 Avionics Guidance & Con Sys	2A172 Avionics Guidance & Con Sys		
2A113 Comm & Nav Systems	2A133 Comm & Nav Systems	2A153 Comm & Nav Systems	2A173 Comm & Nav Systems		
2A114 Abn Surveillance Radar Sys	2A134 Abn Surveillance Radar Sys	2A154 Abn Surveillance Radar Sys	2A174 Abn Surveillance Radar Sys		

MANNED AEROSPACE MAINTENANCE (2A)

Continued

Input or Helper Level	Apprentice or Semiskilled Level	Journeyman or Skilled Level	Craftsman or Advanced Level	Superintendent Level	Chief Enlisted Manager Level
2A117 Elect Warfare Systems	2A137 Elect Warfare Systems	2A157 Elect Warfare Systems	2A177 Elect Warfare Systems	2A190 Conventional Avionics	2A000 Avionics Systems
2A311 F-15/F-111 Avionic Sys	2A331 F-15/F-111 Avionic Sys	2A351 F-15/F-111 Avionic Sys	2A371 F-15/F-111 Avionic Sys	2A390 Tactical Aircraft	2A300 Aircraft
A Attack Con	A Attack Con	A Attack Con			
B Instm & Flt Con	B Instm & Flt Con	B Instm & Flt Con			
C Comm, Nav, & Pen Aids	C Comm, Nav, & Pen Aids	C Comm, Nav, & Pen Aids			
2A312 F-16 Avionic Systems	2A332 F-16 Avionic Systems	2A352 F-16 Avionic Systems	2A372 F-16 Avionic Systems		
A Attack Con	A Attack Con	A Attack Con			
B Instm & Flt Con	B Instm & Flt Con	B Instm & Flt Con			
C Comm, Nav, & Pen Aids	C Comm, Nav, & Pen Aids	C Comm, Nav, & Pen Aids			
2A313 Tac Acft Maint	2A333 Tac Acft Maint	2A353 Tac Acft Maint	2A373 Tac Acft Maint		
A F-15	A F-15	A F-15	A F-15		
B F-16/F-117	B F-16/F-117	B F-16/F-117	B F-16/F-117		
C F/EF-111	C F/EF-111	J Gen (Except	J Gen (Except		
D F-4	D F-4	F-15/F-16/	F-15/F-16/		
E A-10	E A-10	F-117)	F-117)		
F T-1/T-38	F T-1/T-38				
G T-37/OA-37	G T-37/OA-37				
H U-2	H U-2				
Z All Other	Z All Other				
2A411 Acft Guidance & Control	2A431 Acft Guidance & Control	2A451 Acft Guidance & Control	2A471 Acft Guidance & Control	2A490 Acft Avionics	
2A412 Acft Comm & Nav Systems	2A432 Acft Comm & Nav Systems	2A452 Acft Comm & Nav Systems	2A472 Acft Comm & Nav Systems		
2A413 Acft Comd Con Comm & Nav Systems	2A433 Acft Comd Con Comm & Nav Systems	2A453 Acft Comd Con Comm & Nav Systems	2A473 Acft Comd Con Comm & Nav Systems		
2A511 Aerosp Maint	2A531 Aerosp Maint	2A551 Aerosp Maint	2A571 Aerosp Maint	2A590 Aerosp Maint	
A C-9/C-20/C-21/ C-22/C-141/ T-39/T-43	A C-9/C-20/C-21/ C-22/C-141/ T-39/T-43	J C-5/C-9/C-12/ C-17/C-20/ C-21/C-22/			
B C-12/C-26/ C-27/C-130	B C-12/C-26/ C-27/C-130	C-26/C-27/ C-130/C-141/			
C C-5	C C-5	T-39/T-43			
D C-17	D C-17	K B-1/B-2/B-52			
E B-1/B-2	E B-1/B-2	L C-135/C-18/			
F B-52	F B-52	E-3/E-4/KC10/			
G C18/C135/E3/ VC25/VC137	G C18/C135/E3/ VC25/VC137	VC-25/VC-137			
H E-4/KC-10	H E-4/KC-10				
2A512 Helicopter Maint	2A532 Helicopter Maint	2A552 Helicopter Maint	2A572 Helicopter Maint		
A MH-53	A MH-53				
B H-60	B H-60				
C H-1	C H-1				

MANNED AEROSPACE MAINTENANCE (2A)

Continued

Input or Helper Level	Apprentice or Semiskilled Level	Journeyman or Skilled Level	Craftsman or Advanced Level	Superintendent Level	Chief Enlisted Manager Level
2A513 Bomber Avionics Systems	2A533 Bomber Avionics Systems	2A553 Bomber Avionics Systems	2A573 Bomber Avionics Systems	2A590 Aerosp Maint	2A300 Aircraft
A Off Avionic Systems, CITS, OBTS, Doppler Radar Systems	A Off Avionic Systems, CITS, OBTS, Doppler Radar Systems	A Off Avionic Systems, CITS, OBTS, Doppler Radar Systems	A Off Avionic Systems, CITS, OBTS, Doppler Radar Systems		
B Instru & Flt Con Computer	B Instru & Flt Con Computer	B Instru & Flt Con Computer	B Instru & Flt Con Computer		
C Comm, Nav, & Def Avionic	C Comm, Nav, & Def Avionic	C Comm, Nav, & Def Avionic	C Comm, Nav, & Def Avionic		
2A611 Aerospace Propulsion	2A631 Aerospace Propulsion	2A651 Aerospace Propulsion	2A671 Aerospace Propulsion	2A691 Aerospace Propulsion	2A600 Systems
B Turboprop & Turboshaft	B Turboprop & Turboshaft	A Jet Engines	A Jet Engines		
C TF33 Jet Engines	C TF33 Jet Engines	B Turboprop & Turboshaft	B Turboprop & Turboshaft		
D F100 Jet Eng	D F100 Jet Eng				
E F110 Jet Eng	E F110 Jet Eng				
2A612 Aerosp Ground Equip	2A632 Aerosp Ground Equip	2A652 Aerosp Ground Equip	2A672 Aerosp Ground Equip	2A692 Aerosp Ground Equip	
2A613 Aircrew Egress Systems	2A633 Aircrew Egress Systems	2A653 Aircrew Egress Systems	2A673 Aircrew Egress Systems	2A690 Acft Systems	
2A614 Acft Fuel Sys	2A634 Acft Fuel Sys	2A654 Acft Fuel Sys	2A674 Acft Fuel Sys		
2A615 Acft Hydraulic Systems	2A635 Acft Hydraulic Systems	2A655 Acft Hydraulic Systems	2A675 Acft Hydraulic Systems		
2A616 Acft Elect & Envir Systems	2A636 Acft Elect & Envir Systems	2A656 Acft Elect & Envir Systems	2A676 Acft Elect & Envir Systems		
2A711 Acft Metals Technology	2A731 Acft Metals Technology	2A751 Acft Metals Technology	2A771 Acft Metals Technology	2A790 Acft Fabrication	
2A712 Nondestructive Inspection	2A732 Nondestructive Inspection	2A752 Nondestructive Inspection	2A772 Nondestructive Inspection		
2A713 Acft Structural Maint	2A733 Acft Structural Maint	2A753 Acft Structural Maint	2A773 Acft Structural Maint		
2A714 Survival Equipment	2A734 Survival Equipment	2A754 Survival Equipment	2A774 Survival Equipment		

Attachment 11

AFSC 2A174, Craftsman **Apprentice AFSC 2A134**
AFSC 2A154, Journeyman **Helper AFSC 2A114**

AIRBORNE SURVEILLANCE RADAR SYSTEMS
(Changed 30 Apr 98)

1. Specialty Summary. Inspects, modifies, and maintains airborne warning and control system (AWACS) surveillance radar, joint surveillance target attack radar systems (JSTARS), and interrogator systems. Related DoD Occupational Subgroup: 104.

2. Duties and Responsibilities:
2.1. Advises on problems of fault detection and isolation, maintenance, and modification of surveillance radar and interrogation systems. Analyzes equipment operating characteristics to determine sources of malfunctions. Identifies maintenance problem areas, and recommends corrective action. Performs production functions. Coordinates maintenance plans to meet operational commitments. Supervises and assists in aircraft launching and recovery. Reviews maintenance data collection summaries to determine trends and production effectiveness. Debriefs flight personnel.
2.2. Inspects and performs surveillance radar and interrogator systems maintenance. Inspects and tests radar and interrogator systems to locate defects such as cracked or deteriorated wiring, loose mountings, and defective connections. Modifies equipment according to time compliance technical orders and other directives. Isolates malfunctioning radar equipment using built-in and manual fault isolation testing and diagnostic routines. Checks components for technical order compliance. Verifies equipment performance and modifications.
2.3. Maintains ground test stations, support equipment (SE), and maintenance records. Operates and maintains surveillance radar and interrogator systems SE; and posts entries on maintenance forms.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electronic and computer fundamentals, solid state devices, numbering systems, and principles of radio frequency transmission and reception applied to AWACS and JSTARS surveillance radar and interrogator systems; concepts and application of maintenance directives; wiring, logic, and schematic diagrams; digital data processing; pulse Doppler radar theory; nuclear hardness integrity maintenance; and Air Force supply procedures.
3.2. Education. For entry into this specialty, completion of high school with courses in physics and mathematics is desirable.
3.3. Training.
3.3.1. For award of AFSC 2A134, completion of a basic airborne surveillance radar systems maintenance course is mandatory.
3.3.2. For award of AFSC 2A174, completion of the craftsman avionics advanced workcenter management course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A154. Qualification in and possession of AFSC 2A134. Also, experience installing, repairing, testing, or modifying surveillance radar and interrogator systems using electronic test equipment.
3.4.2. 2A174. Qualification in and possession of AFSC 2A154. Also, experience performing or supervising functions such as manual testing, installing, repairing, or modifying radar and interrogator systems using test equipment.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For award and retention of AFSCs 2A134/54/74, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

AFSC 2A371, Craftsman **Apprentice AFSC 2A331***
AFSC 2A351*, Journeyman **Helper AFSC 2A311***

F-15/F-111 AVIONIC SYSTEMS
(Changed 30 Apr 98)

1. Specialty Summary. Isolates malfunctions, and repairs and inspects F-15 and F-111 integrated avionic systems at organizational levels. Inspects, services and performs general aircraft handling procedures. Related DoD Occupational Subgroup: 198.

2. Duties and Responsibilities:
2.1. Identifies and isolates F-15 and F-111 integrated avionic systems malfunctions, and analyzes performance. Operates F-15 and F-111 integrated avionic systems to determine operational condition. Interprets equipment operation to isolate malfunctions in systems such as attack control, instrument, flight control, communications, navigation, and penetration aids. Traces data flow and wiring diagrams. Uses built-in test functions, electronic measuring equipment, support aerospace ground equipment (AGE), and hand tools. Monitors equipment performance and detects and analyzes malfunctions.
2.2. Removes, installs, aligns, and checks F-15 and F-111 integrated avionic systems. Removes and installs line replaceable units, and aligns systems. Operationally checks externally mounted avionic equipment. Boresights systems. Performs organizational maintenance level modifications.
2.3. Inspects F-15 and F-111 integrated avionic systems, post entries, and maintain inspection and maintenance records. Inspects avionic systems and determines operational status. Interprets inspection findings, and determines corrective action adequacy. Reviews maintenance management publications and procedures to obtain avionic systems information. Recommends methods to improve equipment performance and maintenance procedures. Uses automated maintenance systems and Computer Fault Reporting Systems (CFRS). Inputs, validates, and analyzes data processed to automated systems. Clears and closes out completed maintenance discrepancies in automated maintenance systems.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electronic, microelectronic, gyro, synchro, mechanical, and indicator principles, theory, and application; factors involved in transmitting and receiving within the radio frequency and radar frequency ranges; digital computer logic; using and interpreting testing and measuring devices; principles of aerodynamics and motion and power transmission by mechanical and electronic means; electronic combat principles; and concepts and application of maintenance directives.
3.2. Education. For entry into this specialty, completion of high school with courses in physics and mathematics is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 2A331X. Completion of the applicable suffix basic avionic systems course.
3.3.2. 2A371. Completion of the advanced F-15 and F-111 avionic systems course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A351X. Qualification in and possession of AFSC 2A331X. Also, experience in functions such as isolating malfunctions, installing line replaceable units, and using AGE necessary to maintain avionic systems.
3.4.2. 2A371. Qualification in and possession of AFSC 2A351X. Also, experience performing or supervising functions such as installing, maintaining, or inspecting F-15 or F-111 avionic systems.
3.5. Other. The following are mandatory as indicated.
3.5.1. For entry into this specialty, normal color vision as defined in AFMAN 48-123, *Medical Examination and Standards*.
3.5.2. For award and retention of AFSCs 2A331X/51X/71, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

4. Specialty Shredouts

Suffix	*Portion of AFS to Which Related*
A	Attack Control
B	Instrument and Flight Controls
C	Communication, Navigation, and Penetration Aids

NOTE: Suffixes A, B, and C are applicable to the 1-, 3-, and 5-skill levels only.

AFSC 2A573*, Craftsman **Apprentice AFSC 2A533***
AFSC 2A553*,Journeyman **Helper AFSC 2A513***

BOMBER AVIONICS SYSTEMS
(Changed 30 Apr 98)

1. Specialty Summary. Analyzes malfunctions, inspects, removes, maintains, and installs bomber integrated avionics systems at organizational and limited intermediate levels. Related DoD Occupational Subgroup: 198.

2. Duties and Responsibilities:
2.1. Operates bomber avionics systems. Analyzes equipment operating characteristics to isolate malfunctions in offensive avionics systems (OAS) and radar, central integrated test systems (CITS), on board test systems (OBTS), multiplexed data buss systems, video recording systems, electro-optical viewing systems (EVS), inertial navigation systems (INS), primary and secondary flight controls, automatic flight control, engine instrumentation, center of gravity management, central air data systems, electronic warfare (EW) systems, communication, and dependent positioning navigation systems.
2.2. Maintains bomber avionics systems. Removes, installs, checks and repairs bomber avionics systems and line replaceable units (LRU). Diagnoses malfunctions using technical orders, schematics, wiring diagrams, CITS, OBTS, and other test equipment systems. Removes, replaces, and repairs faulty system wiring, electrical connectors, antennas, transmission lines, and multiconductor cables. Modifies bomber avionics systems LRUs according to technical publications. Post entries in maintenance and inspection records. Performs LRU systems alignments to meet specifications. Loads ground maintenance and flight software. Performs off-equipment maintenance on selected avionics LRUs and maintains peculiar support equipment (SE).
2.3. Inspects and evaluates aircraft maintenance activities. Inspects bomber avionics systems. Inspects and verifies operational status and configuration of avionics systems and software. Records and ensures validity of entries into maintenance data collection and inspection systems. Resolves and assists units in solving maintenance and supply problems. Interprets and recommends corrective action to inspection findings.
2.4. Plans, organizes and directs aircraft maintenance activities. Establishes methods and performance standards. Analyzes reports and maintenance plans. Coordinates with supply and other activities to improve procedures and resolve problem. Directs operation and modification of standard operating procedures. Establishes priorities. Evaluates activities for compliance with directives.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: interpreting and applying mechanical, wiring, and electronic circuit diagrams; electronic, microelectronic, data bus, and mechanical principles theory and application; gyros, synchros, indicators, memory storage devices, antennas, servomechanisms, torquing amplifiers, and differential gearing theory and application; electromechanical and electro-optical devices; radar, radio frequency communication, dependent navigation aides, inertial and radar navigation, electronic warfare, automatic flight controls, instruments, multiplexing, and digital computer systems working principles; subsystem tie-in between integrated avionics systems; using and interpreting testing and measuring devices; principles of motion and power transmission by mechanical and electrical means; and concepts and application of maintenance directives.
3.2. Education. For entry into this specialty, completion of high school with courses in physics and mathematics is desirable.
3.3. Training.
3.3.1. For award of AFSC 2A533X, completion of the applicable suffix basic avionics systems course is mandatory.
3.3.2. For award of AFSC 2A573X, completion of the craftsman course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A553X. Qualification in and possession of AFSC 2A533X. Also, experience isolating malfunctions, removing and installing LRUs, and use of test and ground SE.
3.4.2. 2A573X. Qualification in and possession of AFSC 2A553X. Also, experience performing or supervising functions such as analyzing and isolating integrated avionics systems malfunctions and using test equipment.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For award and retention of AFSCs 2A533X/53X/73X, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

4. *Specialty Shredouts

Suffix	*Portion of AFS to Which Related*
A	Offensive Avionics Systems, CITS, OBTS, and Doppler Radar Systems
B	Instrument and Flight Control Computer
C	Communication, Navigation, and Defensive Avionics Systems

CEM Code 2A600
AFSC 2A692, Superintendent
AFSC 2A672, Craftsman

Journeyman AFSC 2A652
Apprentice AFSC 2A632
Helper AFSC 2A612

AEROSPACE GROUND EQUIPMENT
(Changed 30 Apr 98)

1. Specialty Summary. Maintains aerospace ground equipment (AGE) to support aircraft systems or subsystems. Manages AGE functions and activities. Related DoD Occupational Subgroup: 602.

2. Duties and Responsibilities:
2.1. Performs scheduled and unscheduled maintenance on AGE. Inspects, tests, and operates AGE to determine equipment serviceability and proper operation. Diagnoses mechanical and electronic circuitry malfunctions using visual and auditory senses, test equipment, and technical publications. Removes, disassembles, repairs, cleans, treats for corrosion, assembles, and re-installs AGE accessories and components. Stencils and marks AGE. Services equipment with fuel, oil, coolant, water, hydraulic fluid, and air. Operates, cleans, inspects, and services AGE towing vehicles. Maintains vehicle forms. Provides dispatch service for AGE, including positioning equipment to support aircraft maintenance and flying operations.
2.2. Diagnoses malfunctions and repairs AGE. Advises and performs troubleshooting on AGE before assigning repair action. Inspects and approves completed maintenance actions. Prepares AGE for storage and mobility deployment. Solves repair problems by studying drawings, wiring diagrams and schematics, and technical publications. Uses automated maintenance system to monitor maintenance trends, analyze equipment requirements, maintain equipment records, and document maintenance actions. Analyzes and repairs ground support equipment using conventional and digital multimeters, voltmeters, ohmmeters, frequency counters, oscilloscopes, circuit card testers, transistor testers, and hand tools. Maintains external fuel and grounding systems. Stores, handles, uses, and disposes of hazardous material and waste according to environmental standards.
2.3. Plans and organizes AGE maintenance activities. Establishes production controls and standards. Interprets and implements policy directives and instructions pertaining to maintenance, including environmentally safe maintenance practices. Determines resource requirements, including facilities, training, equipment, and supplies. Inspects maintenance activities, evaluates resource use, and recommends corrective actions. Determines equipment serviceability criteria where it does not exist. Encourages quality Air Force activities.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: principles of electricity, electronics, general mechanics, heating, refrigeration, pneumatics, hydraulics, and reciprocating and turbine engines; troubleshooting, inspecting, repairing, and modifying equipment; use of automated maintenance systems; application of maintenance management techniques; interpretation of maintenance directives, technical publications, drawings, wiring diagrams and schematics; and proper identification, handling, use, and disposal of hazardous waste materials.
3.2. Education. For entry into this specialty, completion of high school with courses in general science and industrial arts is desirable.
3..3. Training. For award of AFSC 2A632, completion of a basic AGE training course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A652. Qualification in and possession of AFSC 2A632. Also, experience in functions such as inspecting, modifying, or repairing AGE.
3.4.2. 2A672. Qualification in and possession of AFSC 2A652. Also, experience performing or supervising functions such as inspecting, modifying, repairing, or troubleshooting AGE.
3.4.3. 2A692. Qualification in and possession of AFSC 2A672. Also, experience managing AGE functions and activities.
3.5. Other. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*, is mandatory.

AFSC 2A771, Craftsman **Apprentice AFSC 2A731**
AFSC 2A751, Journeyman **Helper AFSC 2A711**

AIRCRAFT METALS TECHNOLOGY
(Changed 30 Apr 98)

1. Specialty Summary. Designs, welds, heat treats, fabricates, and machines precision tools, components, and assemblies for aerospace weapon systems and related support equipment (SE). Related DoD Occupational Subgroup: 700.

2. Duties and Responsibilities:
2.1. Advises on metals machining, welding, designing, and production problems. Designs, manufactures, or modifies special precision tools, gauges, dies, and fixtures to facilitate metal working operations. Performs metals technology shop calculations such as determining cutting speeds and settings, welding processes, and preheat and postheat requirements. Welds, brazes, solders, and heat treats metals. Uses manual and computer numerical controlled (CNC) metal working machines, mills, and lathes to manufacture and repair cams, gears, slots, and keyways for aircraft components and SE. Writes programs for CNC machines using manual and Computer Aided Design-Computer Aided Manufacturing (CAD-CAM) methods. Checks completed components and determines serviceability in accordance with drawings and specifications.
2.2. Disassembles, assembles, and fits component parts using machine screws, bolts, rivets, press fits, and welding techniques. Uses metal working equipment, tools, and supplies to produce surface finishing specifications for components. Extracts broken or damaged hardware. Checks components for wear tolerances using precision measuring devices.
2.3. Maintains and inspects hand tools and metal working machinery. Performs operator maintenance and service inspections on shop equipment and tools. Ensures lock out and tag out procedures are accomplished prior to maintenance on all equipment. Uses and disposes of hazardous waste and materials according to environmental standards.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: metal repair and fabrication processes; composition of metals and machinable materials; weld specifications; metal tempering; forging; mechanical drawings; use of precision measuring devices and tools; metal fabricating by oxyacetylene, metallic arc, and inert gas shielded arc; operation and capacity of metal working and welding equipment; use and fabrication of layout and fixture devices; safety codes and practices regarding equipment and supplies; hazards of explosive gasses, hazardous rays, and fumes; and proper handling, use, and disposal of hazardous waste and materials.
3.2. Education. For entry into this specialty, completion of high school with courses in shop mathematics, metal working, or mechanical drawing is desirable.
3.3. Training.
3.3.1. For award of AFSC 2A731, completion of a basic aircraft metals technology course is mandatory.
3.3.2. For award of AFSC 2A771, completion of the craftsman aircraft metals technology course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2A751. Qualification in and possession of AFSC 2A731. Also, experience in functions such as gas and electric welding, boring, milling, shaping, grinding metal, or using precision measuring devices.
3.4.2. 2A771. Qualification in and possession of AFSC 2A751. Also, experience performing or supervising functions dealing with welding, using precision measuring devices, and machining.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry, award, and retention of AFSCs 2A711/31/51/71, normal depth perception as defined in AFI 48-123.

Attachment 12

COMMUNICATIONS - ELECTRONICS SYSTEMS CAREER FIELD (2E)

INTRODUCTION

The Communications-Electronics Systems Career Field encompasses the functions of installing, modifying, maintaining, repairing, and overhauling ground television equipment; ground weather equipment; air traffic control, aircraft control and warning, missile warning, and automatic tracking radar equipment; simulator and training systems; ground radio equipment, including carrier repeater, microwave, tropospheric scatter, flight facilities, and light and heavy, fixed and mobile radio equipment and space communications systems equipment; high-speed general and special purpose data processing equipment; automatic communications and cryptographic machine systems; teletypewriter and teleautograph equipment; electromechanical cryptographic equipment; space systems command and control; and associated electronic test equipment. Included in this field are the functions of systems control, automatic tracking equipment operation, display systems operation, and associated communications-electronic equipment for which an operator position is not provided.

Excluded from this career field are the functions of operating radio and radar equipment, with the exceptions indicated in paragraph 1, and maintaining and overhauling electronic components peculiar to the Missile Electronic Maintenance Career Field, the Avionics Systems Career Field, or the Training Devices Career Field. The following is a complete listing of AFSCs for theCommunications—Electronics Systems Career Field.

COMMUNICATIONS - ELECTRONICS - SYSTEMS (2E)											
Input or Helper Level		**Apprentice or Semiskilled Level**		**Journeyman or Skilled Level**		**Craftsman or Advanced Level**		**Superintendent Level**		**Chief Enlisted Manager Level**	
2E011	Ground Radar Systems	2E031	Ground Radar Systems	2E051	Ground Radar Systems	2E071	Ground Radar Systems	2E091	Ground Radar Systems	2E000	Comm-Elect Systems Mgr
2E111	Satellite & Wideband Comm Equip	2E131	Satellite & Wideband Comm Equip	2E151	Satellite & Wideband Comm Equip	2E171	Satellite & Wideband Comm Equip	2E190	Comm Systems		
2E112	Meterorologi-cal & Nav Sys	2E132	Meterorologi-cal & Nav Sys	2E152	Meterorologi-cal & Nav Sys	2E172	Meterorological & Nav Sys				
2E113	Ground Radio Comm	2E133	Ground Radio Comm	2E153	Ground Radio Comm	2E173	Ground Radio Comm				
2E114	Visual Imagery & Intrusion Detection Sys	2E134	Visual Imagery & Intrusion Detection Sys	2E154	Visual Imagery & Intrusion Detection Sys	2E174	Visual Imagery & Intrusion Detection Sys				
2E211	Elect Comp & Swg Systems	2E231	Elect Comp & Swg Systems	2E251	Elect Comp & Swg Systems	2E271	Elect Comp & Swg Systems	2E291	Elect Comp & Swg Systems		
A	AN/TYQ-23(V)2 and AN/FYQ-93	A	AN/TYQ-23(V)2 and AN/FYQ-93	A	AN/TYQ-23(V)2 and AN/FYQ-93						
B	Abn Computer Maintenance	B	Abn Computer Maintenance	B	Abn Computer Maintenance						
C	Strategic Communica-tions Systems	C	Strategic Communica-tions Systems	C	Strategic Communica-tions Systems						
D	AN/FYQ-93 Joint Surveillance System	D	AN/FYQ-93 Joint Surveillance System	D	AN/FYQ-93 Joint Surveillance System						
2E311	Secure Comm Systems	2E331	Secure Comm Systems	2E351	Secure Comm Systems	2E371	Secure Comm Systems	2E391	Secure Comm Systems		
2E411	Space Systems	2E431	Space Systems	2E451	Space Systems	2E471	Space Systems	2E491	Space Systems		
2E611	Comm & Ant Systems	2E631	Comm & Ant Systems	2E651	Comm & Ant Systems	2E671	Comm & Ant Systems	2E690	Tele & Distr Comm Systems		
2E612	Comm Cable Systems	2E632	Comm Cable Systems	2E652	Comm Cable Systems	2E672	Comm Cable Systems			2E000	Comm-Elect Systems Mgr
2E613	Telephone Systems	2E633	Telephone Systems	2E653	Telephone Systems	2E673	Telephone Systems				
2E811	Instrumenta-tion & Telemetry Systems	2E831	Instrumenta-tion & Telemetry Systems	2E851	Instrumenta-tion & Telemetry Systems	2E871	Instrumentation & Telemetry Systems	2E891	Instrumentatio n & Telemetry Systems	2E800	Instrumenta-tion & Telemetry Systems

CEM Code 2E000 **Superintendent AFSC 2E190**

COMMUNICATIONS SYSTEMS
(Changed 30 Apr 98)

1. Specialty Summary. Manages and directs communications systems maintenance facilities and resources. Included are functions of installing, maintaining, repairing, overhauling, deploying, and modifying. Systems and equipment include ground radio, meteorological and navigation, combat camera, imagery, video, television, satellite, intrusion detection, and microwave. Related DoD Occupational Subgroup: 101.

2. Duties and Responsibilities:
2.1. Plans and organizes maintenance activities. Prepares and analyzes reports encompassing siting, deploying, maintaining, installing, repairing, and removing communications systems, combat camera equipment, imagery systems, and related equipment. Included are ground radio equipment; navigation and meteorological systems; satellite and microwave communications systems, video, television studio, and intrusion detection systems; combat camera; and imagery systems. Coordinates activities and resolves problems.
2.2. Directs maintenance activities. Checks systems and equipment for proper siting, installation, and serviceability. Directs personnel employed in siting, deploying, inspecting, adjusting, removing, replacing, and repairing communications systems and related equipment. Directs overhaul and repair of communications systems, combat camera equipment, imagery systems, and related equipment. Ensures work standards are maintained. Determines extent and economy of repair, including disposition of malfunctioning equipment.
2.3. Inspects and evaluates maintenance activities. Interprets findings, and recommends or initiates corrective action. Serves on or directs inspection teams to evaluate maintenance activities. Discusses inspection findings. Maintains liaison with users to ensure adequate services are being provided.
2.4. Supervises maintenance functions. Resolves problems installing, maintaining, repairing, and overhauling systems and equipment. Establishes local maintenance procedures and policies. Performs research and development of new systems and equipment.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electronics principles theory and its application to ground radio, meteorological and navigation, combat camera, imagery, video, television, intrusion detection, and satellite and microwave communications facilities, systems, and equipment and their interoperability; communications and computer elements of a typical air base; and interpreting wiring and logic diagrams, blueprints, and technical orders.
3.2. Education. Not used.
3.3. Training. Not used.
3.4. Experience. For award of AFSC 2E190, qualification in and possession of AFSC 2E171/72/73/74 is mandatory. Also, experience is mandatory managing or directing functions such as installing, maintaining, repairing, or modifying the various systems and related equipment of the feeder specialties.
3.5. Other. For award and retention of AFSC 2E190/00, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program,* is mandatory.

AFSC 2E174, Craftsman **Apprentice AFSC 2E134**
AFSC 2E154, Journeyman **Helper AFSC 2E114**

VISUAL IMAGERY AND INTRUSION DETECTION SYSTEMS
(Changed 30 Apr 98)

1. Specialty Summary. Installs, performs operational checks, inspects, troubleshoots, repairs, overhauls, calibrates, modifies, tests, and analyzes performance of television equipment; cable head-end; audio, radiated, and auxiliary broadcast equipment; fixed and mobile combat camera and other imagery related equipment; and intrusion detection systems. Monitors and directs performance checks of television and intrusion detection systems. Ensures continuous acceptable systems performance. Manages television, imagery, or intrusion detection system facilities. Related DoD Occupational Subgroup: 191.

2. Duties and Responsibilities:
2.1. Installs and checks operation on television, imagery, and intrusion detection systems and equipment. Assembles, positions, interconnects, and adjusts system components and subassemblies. Measures, adjusts, and operationally tests equipment and systems. Performs preventive maintenance and ensures performance standards.
2.2. Repairs and modifies equipment and systems. Troubleshoots, repairs, and replaces components. Aligns television, imagery, and intrusion detection equipment. Included are cameras, transmitters, receivers, monitors, video tape recorders, audio and video projection equipment, sensors, annunciators, assessment systems, projectors, film processing and printing equipment, electronic imaging and video equipment, and related support items for combat camera and deployable weapon systems, and peculiar test equipment. Ensures acceptable broadcast quality transmission and reliable system operation. Ensures proper assembly; installation; and electro-optical adjustment of mechanical, electrical, and optical equipment. Installs equipment, and services and adjusts equipment and systems. Identifies corrosion problems and accomplishes corrective measures. Lubricates and cleans equipment and components.
2.3. Inspects television, imagery, and intrusion detection systems and equipment. Maintains inspection and maintenance records. Inspects, adjusts, and aligns equipment and systems. Ensures maximum operating efficiency. Posts entries in maintenance and inspection records. Maintains equipment performance logs. Completes maintenance data collection forms. Analyzes maintenance data to determine unfavorable trends or conditions.
2.4. Supervises, plans, and organizes maintenance activities. Establishes requirements for tools, equipment, and technical documents. Establishes work standards, methods, and controls. Reviews, evaluates, and resolves deficiencies. Prepares and analyzes reports. Ensures maintenance data, and inspection and maintenance records are complete and accurate. Evaluates recommended improvements to equipment performance and maintenance procedures. Develops and enforces safety standards and practices. Inspects maintenance activities to determine operational status and solve problems. Reviews inspection findings and recommends corrective action. Performs quality control functions. Resolves equipment installation, repair, overhaul, calibration, and modification problems. Coordinates with production agencies.
2.5. Plans, schedules, and implements installation of television and intrusion detection systems and equipment.
2.6. Prepares deployable facilities and equipment for transportation and employment. Deploys, sets-up, and maintains deployed facilities and equipment.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: electronic, transmission, infrared and thermal imagery theories; solid state components; digital techniques; microprocessors; optical and mechanical principles; imagery equipment; installation and testing practices; test equipment; wiring and logic diagrams; circuit schematics; and maintenance and supply procedures.
3.2. Education. For entry into this specialty, completion of high school with courses in algebra, geometry, trigonometry, and physics is desirable.
3.3. Training. The following is mandatory for award of the AFSC indicated:
3.3.1. 2E134. Completion of a basic visual imagery and intrusion detection systems maintenance course.
3.3.2. 2E174. Completion of the communications-electronics career advancement course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 2E154. Qualification in and possession of AFSC 2E134. Also, experience in functions such as installing, testing, aligning, adjusting, or repairing television, imagery, and intrusion detection equipment and systems.
3.4.2. 2E174. Qualification in and possession of AFSC 2E154. Also, experience performing or supervising functions such as sitting, installing, repairing, overhauling, or modifying television, imagery, or intrusion detection equipment and systems.

3.5. Other. The following are mandatory as indicated:
3.5.1. For entry into this specialty, normal color vision as defined in AFI 48-123, *Medical Examination and Standards*.
3.5.2. For award and retention of AFSCs 2E134/54/74, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

TELEPHONE AND DISTRIBUTED COMMUNICATIONS SYSTEMS
(Changed 30 Apr 98)

1. Specialty Summary. Superintends installation and maintenance actions on all telephone switching, telephone and circuitry equipment, cable, and antenna activities supporting command, control, communications, and computer (C4) systems. Related DoD Occupational Subgroup: 623.

2. Duties and Responsibilities:
2.1. Plans and organizes telephone systems, cable, or antenna activities.. Determines requirements for space, equipment, tools, vehicles, and personnel to perform installation and maintenance actions. Develops and improves work methods and procedures related to installation and maintenance of all telephone, cable, and antenna systems supporting C4 systems. Coordinates with activities and organizations to determine requirements.
2.2. Directs telephone system, cable, or antenna activities. Establishes priorities for installation and maintenance actions. Organizes work teams. Schedules installation and maintenance actions.
2.3. Inspects and evaluates telephone system, cable, or antenna activities. Inspects telephone system, cable, or antenna activities for compliance with standards. Evaluates inspection findings, and implements corrective action.
2.4. Performs technical and maintenance functions. Resolves technical problems. Interprets plans and specifications as required.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: maintenance management principles, principles of telephony; electrical and lightwave communications fundamentals, wire and antenna transmission phenomena; and digital telephone switching systems; telephone equipment and data circuitry; cable systems; and antenna systems.
3.2. Education. Not used.
3.3. Training. Not used.
3.4. Experience. For award of AFSC 2E690, qualification in and possession of AFSC 2E671/72/73 is mandatory. Also, experience is mandatory supervising installation and maintenance in areas such as telephone switching systems; telephone subsets; telephone key systems and data transmission media systems circuitry; T-carrier; fiber-optic end equipment; modems; multiplexers; line drivers and associated hardware; and cable and antenna systems, including supporting structures, radomes, and transmission lines, and buried, aerial, underground copper core, and fiber-optic C4 cable systems.
3.5. Other. For award and retention of this AFSC, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*, is mandatory.

Attachment 13

FUELS CAREER FIELD (2F)

INTRODUCTION

The Fuels Career Field encompasses operating and managing of petroleum fuel systems and activities including the entire spectrum of requisitioning, receiving, storing, dispensing, and testing petroleum fuels, liquid cryogenics, and demineralized water. Refueling vehicles and installed mechanical fuel systems are used to distribute aviation and ground fuels. All operations include environmental protection and energy conservation practices. Computer systems are used throughout the fuels career field. The following is a complete listing of AFSCs for the Fuels Career Field.

FUELS (2F)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
2F011 Fuels	2F031 Fuels	2F051 Fuels	2F071 Fuels	2F091 Fuels	2F000 Fuels

Attachment 14

LOGISTICS PLANS CAREER FIELD (2G)

INTRODUCTION

The Logistics Plans Career Field encompasses managing, administering, and operating logistics plans systems and activities. Included in this field are formulating, developing, evaluating, and monitoring all aspects of logistics plans systems such as plans, policies, and programs pertaining to executing partial or total Air Force or joint service mission, and using the guidance and procedures for interpreting and implementing current, intermediate, and long range plans, policies, and programs. The following is a complete listing of AFSCs for the Logistics Plans Career Field.

LOGISTICS PLANS (2G)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
2G011 Logistics Plans	2G031 Logistics Plans	2G051 Logistics Plans	2G071 Logistics Plans	2G091 Logistics Plans	2G000 Logistics Plans

Attachment 15

MISSILE AND SPACE SYSTEMS MAINTENANCE CAREER FIELD (2M)

INTRODUCTION

The Missile and Space Systems Maintenance Career Field encompasses the skills, functions, and techniques used to acquire, activate, assemble, transport, install, and maintain missiles and subsystems; acquire, activate, and supervise assembly, transportation, maintenance, inspection, modification, and launch processing of spacelift boosters, satellites, and subsystems; launch, control, track, and recover unmanned air vehicles (UAV) and related equipment; assemble, operate, fabricate, install, test, and troubleshoot specialized research and development (R&D) systems and subsystems; acquire, activate, inspect, maintain, repair, calibrate, modify, and manage these actions on related missile, booster, satellite, UAV, and R&D facilities, support systems, test equipment, and subsystems. The following is a complete listing of AFSCs for the Missile and Space Systems Maintenance Career Field.

MISSILE & SPACE SYSTEMS MAINTENANCE (2M)											
Input or Helper Level		**Apprentice or Semiskilled Level**		**Journeyman or Skilled Level**		**Craftsman or Advanced Level**		**Superintendent Level**		**Chief Enlisted Manager Level**	
2M011	Msl & Space Sys Elect Maint	2M031	Msl & Space Sys Elect Maint	2M051	Msl & Space Sys Elect Maint	2M071	Msl & Space Sys Elect Maint	2M090	Msl & Space Sys Maint	2M000	Msl & Space Sys Maint
A	ICBM	A	ICBM								
B	ALCM	B	ALCM								
2M012	Msl & Space Sys Maint	2M032	Msl & Space Sys Maint	2M052	Msl & Space Sys Maint	2M072	Msl & Space Sys Maint				
A	ICBM	A	ICBM								
2M013	Msl & Space Facilities	2M033	Msl & Space Facilities	2M053	Msl & Space Facilities	2M073	Msl & Space Facilities				
A	ICBM	A	ICBM								

Attachment 16

PRECISION MEASUREMENT EQUIPMENT LABORATORY CAREER FIELD (2P)

INTRODUCTION

The Precision Measurement Equipment Laboratory Career Field provides maintenance, modification, repair, calibration, and certification for test, measurement, and diagnostic equipment, including avionics-peculiar support equipment. It also implements methods and procedures for managing the US Air Force Metrology and Calibration (AFMETCAL) program as established and directed by AFI 21-113, *Air Force Metrology & Calibration (AFMETCAL) Program*. The AFMETCAL program is a composite of measurement standards and equipment, users, calibration data, and integrated planning to provide a disciplined US Air Force program to ensure reliability, accuracy, and traceability of systems, subsystems, and equipment.
The following is a complete listing of AFSCs for the Precision Measurement Equipment Laboratory Career Field.

PRECISION MEASUREMENT (2P)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
2P011 Precision Measurement Equip Lab	2P031 Precision Measurement Equip Lab	2P051 Precision Measurement Equip Lab	2P071 Precision Measurement Equip Lab	2P091 Precision Measurement Equip Lab	2P000 Precision Measurement Equip Lab

Attachment 17

MAINTENANCE MANAGEMENT SYSTEMS CAREER FIELD (2R)

INTRODUCTION

The Maintenance Management Systems Career Field includes planning and scheduling aircraft, missiles, and associated equipment; operating and maintaining the management information system; and collecting, analyzing, and presenting maintenance data in maintenance organizations. Such organizations include aircraft, missile, avionics, communications-electronics, and munitions maintenance. The following is a complete listing of AFSCs for the Maintenance Management Systems Career Field.

MAINTENANCE MANAGEMENT SYSTEMS (2R)											
Input or Helper Level		**Apprentice or Semiskilled Level**		**Journeyman or Skilled Level**		**Craftsman or Advanced Level**		**Superintendent Level**		**Chief Enlisted Manager Level**	
2R011	Maint Data Sys Analysis	2R031	Maint Data Sys Analysis	2R051	Maint Data Sys Analysis	2R071	Maint Data Sys Analysis	2R091	Maint Data Sys Analysis	2R000	Maint Data Sys Analysis
2R111	Maint Scheduling	2R131	Maint Scheduling	2R151	Maint Scheduling	2R171	Maint Scheduling	2R191	Maint Scheduling	2R100	Maint Scheduling

Attachment 18

SUPPLY CAREER FIELD (2S)

INTRODUCTION

The Supply Career Field encompasses managing, administrating, and operating supply systems and activities. This field includes functions of designing, developing, analyzing, and operating supply systems; requirements determination and computation; operating and managing materiel storage warehouses; equipment review and validation; records maintenance; inventory and distribution control; and inspection and identification of property.

Excluded from this field are managing Defense Reutilization and Marketing Offices, and operation and maintenance of organizational bench stocks, tool cribs, equipment custodial responsibilities, and other duties not related solely to accomplishing the supply mission. The following is a complete listing of AFSCs for the Supply Career Field.

SUPPLY (2S)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
2S011 Supply Mgt	2S031 Supply Mgt	2S051 Supply Mgt	2S071 Supply Mgt	2S090 Supply Mgt	2S000 Supply
2S012 Supply Systems Analysis	2S032 Supply Systems Analysis	2S052 Supply Systems Analysis	2S072 Supply Systems Analysis		

Attachment 19

TRANSPORTATION AND VEHICLE MAINTENANCE CAREER FIELD (2T)

INTRODUCTION

The Transportation and Vehicle Maintenance Career Field encompasses transportation functions involving moving personnel, materiel, and household goods by military and commercial transportation facilities. Included are packaging; handling and loading freight and baggage on military aircraft; scheduling military air transportation of personnel and materiel; briefing and caring for passengers on military aircraft; arranging for commercial air, rail, motor, and water transportation of personnel, material, and household goods; dispatching and operating vehicles; and operating yard locomotives.

Vehicle maintenance functions of this career field include inspecting, repairing, and modifying general purpose vehicles and related equipment; base maintenance equipment; special purpose vehicles; vehicle body maintenance, repair, and refinishing; vehicle maintenance analysis; and related functions.

Excluded from this career field are maintaining aerospace ground equipment used in direct support of aircraft and missiles, and maintaining fixed power production equipment. Also excluded are functions of scheduling, clearing, and dispatching aircraft. The following is a complete listing of AFSCs for the Transportation and Vehicle Maintenance Career Field.

TRANSPORTATION AND VEHICLE MAINTENANCE (2T)											
Input or Helper Level		**Apprentice or Semiskilled Level**		**Journeyman or Skilled Level**		**Craftsman or Advanced Level**		**Superintendent Level**		**Chief Enlisted Manager Level**	
2T011	Traffic Mgt	2T031	Traffic Mgt	2T051	Traffic Mgt	2T071	Traffic Mgt	2T091	Traffic Mgt	2T000	Traffic
2T111	Vehicle Operations	2T131	Vehicle Operations	2T151	Vehicle Operations	2T171	Vehicle Operations	2T191	Vehicle Operations	2T100	Vehicle Operations
2T211	Air Transportation	2T231	Air Transportation	2T251	Air Trans-portation	2T271	Air Trans-portation	2T291	Air Trans-portation	2T200	Air Transportation
2T311	Spec Purpose Vehicle & Equip Maint	2T331	Spec Purpose Vehicle & Equip Maint	2T351	Special Purpose Vehicle & Equip Maint	2T370	Vehicle & Equip Maint	2T390	Vehicle Maint	2T300	Vehicle Maint
2T312	Spec Vehicle Maint	2T332	Spec Vehicle Maint	2T352	Spec Vehicle Maint						
A	Firetrucks	A	Firetrucks	A	Firetrucks						
B	Refueling Vehicle	B	Refueling Vehicle	B	Refueling Vehicle						
2T314	General Purpose Vehicle Maint	2T334	General Purpose Vehicle Maint	2T354	General Purpose Vehicle Maint						
2T315	Vehicle Body Maint	2T335	Vehicle Body Maint	2T355	Vehicle Body Maint						
2T317	Vehicle Maint Control & Analysis	2T337	Vehicle Maint Control & Analysis	2T357	Vehicle Maint Control & Analysis	2T377	Vehicle Maint Control & Analysis				

Attachment 20

MUNITIONS AND WEAPONS CAREER FIELD (2W)

INTRODUCTION
(Changed 30 Apr 96)

The Munitions and Weapons Career Field includes assembling, maintaining, storing, delivering, inventory managing, and loading nonnuclear munitions and solid propellants; and handling and aircraft loading nuclear munitions and guided aircraft missiles and rockets. It includes installing, maintaining, and repairing aircraft munitions release and monitor systems, bomb racks, shackles, aircraft machine guns, and cannons; and assembling mechanical components of guided aircraft missiles and rockets. It also includes inspecting, assembling, maintaining, inventory managing, and modernizing mechanical, electrical, electronic, and high explosive components of nuclear weapons and warheads, air launched missiles, reentry vehicles, associated test equipment, and radiological survey instruments. Included in this field are functions of testing mechanical, electrical, and electronic components for acceptance; installing, operational checking, and repairing weapons, warheads, air launched missiles, missile turbojet engines, and reentry vehicle components; surveying and plotting radiation hazards; using and maintaining specialized radiac instruments; munitions disposal activities; and technical escort functions associated with chemical munitions.

Excluded from this field are installing, inspecting, handling, storing, delivering, and issuing liquid propellant fuels. The following is a complete listing of AFSCs for the Munitions and Weapons Career Field.

MUNITIONS & WEAPONS (2W)											
Input or Helper Level		Apprentice or Semiskilled Level		Journeyman or Skilled Level		Craftsman or Advanced Level		Superintendent Level		Chief Enlisted Manager Level	
2W011	Munitions Sys	2W031	Munitions Sys	2W051	Munitions Sys	2W071	Munitions Sys	2W091	Munitions Sys	2W000	Munitions Maint
2W111	Aircraft Armament Systems	2W131	Aircraft Armament Systems	2W151	Aircraft Armament Systems	2W171	Aircraft Armament Systems	2W191	Aircraft Armament Systems	2W100	Aircraft Armament
C	A-10	C	A-10								
D	F-4	D	F-4								
E	F-15	E	F-15								
F	F-16	F	F-16								
H	F-111	H	F-111								
K	B-52G/H	K	B-52G/H								
L	B-1B	L	B-1B								
Z	All Other	Z	All Other								
2W211	Nuclear Weapons	2W231	Nuclear Weapons	2W251	Nuclear Weapons	2W271	Nuclear Weapons	2W291	Nuclear Weapons	2W200	Nuclear Weapons

Attachment 21

INFORMATION MANAGEMENT CAREER FIELD (3A)

INTRODUCTION

The Information Management Career Field includes operating and managing information management functions identified in AFMAN 37-104, *Managing Information to Support the Air Force Mission*, command, staff, or executive support; and general office management. Specific duties include setting and carrying out policies, procedures, and standards concerning publications, correspondence, and effective writing; abbreviations; administrative orders; publishing libraries; planning and programming to include strategic, wartime, and contingency planning, manpower, productivity, commercial activities, and budget; information analysis; and publications and forms. Information management personnel design office layouts; conduct information management systems analysis; report analysis results; and identify and recommend new or reviewed office procedures and automated systems requirements. They also requisition, store, control, and distribute publications and forms; manage the information reports requirement program; operate publishing distribution offices; establish and implement policies, procedures, and standards related to document security and transmission, Base Information Transfer Center (BITC), and postal operations; manage central destruction facilities; maintain liaison with Defense Courier Service; maintain the Air Force Address Directory and Standard Functional Address System; establish and implement policies for records maintenance and disposal to include microform and electronic records; provide document release and fee schedules; administer and monitor the Privacy Act Program; administer the Freedom of Information Act, and ensure coordination with appropriate release authorities in determining propriety for release; and perform functions involved in operating and maintaining printing and duplicating equipment. Other functions included are commercially procuring printing through Government Printing Office regional printing procurement offices and copier management programs. Works with Chief, Base Information Management and information systems representatives to ensure best mix of equipment and information flow. The following is a complete listing of AFSCs for the Information Management Career Field.

INFORMATION MANAGEMENT (3A)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
3A011 Information Management	3A031 Information Management	3A051 Information Management	3A071 Information Management	3A091 Information Management	3A000 Information Management

Attachment 22

COMMUNICATIONS-COMPUTER SYSTEMS CAREER FIELD (3C)

INTRODUCTION
(Changed 31 Oct 95)

The Communications-Computer Systems (C-CS) Career Field encompasses both Communications-Computer and Communications-Electronics. Included are management, administration, operation, security, and restoral of C-CS in the client, server, and network environment, it's related operating systems software, hardware, and connectivity; related functions of messaging, host computer operations, systems control, and management of C-CS security programs, devices, and materials; functions required for planning and implementing C-CS; operations and supervision of high frequency radio networks and systems; the analysis, development, design, and programming of C-CS software and automated systems; and performance of electromagnetic spectrum management activities. The following is a complete listing of AFSCs for the Communications-Computer Systems.

COMMUNICATIONS-COMPUTER SYSTEMS (3C)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
3C011 Communication - Computer Sys Operations	3C031 Communication - Computer Sys Operations	3C051 Communication - Computer Sys Operations	3C071 Communication - Computer Sys Operations	3C090 Communication - Computer Sys	3C000 Communication - Computer Sys
3C012 Communication - Computer Sys Programming	3C032 Communication - Computer Sys Programming	3C052 Communication - Computer Sys Programming	3C072 Communication - Computer Sys Programming		
3C111 Radio Communication Systems	3C131 Radio Communication Systems	3C151 Radio Communication Systems	3C171 Radio Communication Systems	3C191 Radio Communication Systems	
3C112 Electromagnetic Spectrum Mgt	3C132 Electromagnetic Spectrum Mgt		3C172 Electromagnetic Spectrum Mgt	3C192 Electromagnetic Spectrum Mgt	
3C211 Communication - Computer Sys Control	3C231 Communication - Computer Sys Control	3C251 Communication - Computer Sys Control	3C271 Communication- -Computer Sys Control	3C291 Communication - Computer Sys Control	
3C311 Communication - Computer Sys Plan & Imp	3C331 Communication - Computer Sys Plan & Imp	3C351 Communication - Computer Sys Plan & Imp	3C371 Communication - Computer Sys Plan & Imp	3C391 Communication - Computer Sys Plan & Imp	

CEM Code 3C000
AFSC 3C191, Superintendent
AFSC 3C171, Craftsman

Journeyman AFSC 3C151
Apprentice AFSC 3C131
Helper AFSC 3C111

RADIO COMMUNICATIONS SYSTEMS
(Changed 30 Apr 98)

1. Specialty Summary. Supervises, operates, and manages radio transmitting, receiving, and ancillary equipment and systems to provide high frequency and satellite communications in fixed and tactical environments. Related DoD Occupational Subgroup: 201.

2. Duties and Responsibilities:
2.1. Operates radio and satellite communications systems and computer terminals. Tunes transmitters, receivers, or transceivers to required signals on prescribed frequencies. Adjusts communications systems equipment, antenna systems, and terminal equipment to provide voice, digital, or analog operations. Performs equipment checks and minor maintenance such as replacing circuitry cards and line replaceable units. Monitors specified frequencies, analyzes radio wave propagation data, and operates and interprets data from frequency selection equipment.
2.2. Processes communications traffic. Copies transmissions from air and ground stations. Processes and relays operational, and administrative messages, including flight, command and control information, and weather data. Encodes and decodes classified messages. Complies with local instructions upon receiving emergency or distress signals; alerts designated direction finding stations.
2.3. Reviews and evaluates radio operations. Identifies and resolves operational problems. Inspects radio operations activities and takes corrective actions to eliminate discrepancies and improve operational efficiency. Monitors station management, training programs, and mission support.
2.4. Performs radio operations functions. Reports status and operating efficiency. Maintains codes, authentication systems, communications directives and publications, and frequency propagation data. Accounts for classified or controlled documents, equipment, and communications security materials.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: functions and operation of fixed and tactical radio and satellite transmitters, receivers, transceivers, remote control units, control consoles, phone patch, and terminal equipment; basic theory and type of fixed, tactical, and satellite antennas; operation of voice and data encryption and decryption equipment; worldwide communications systems; radio operations procedures; emergency and distress procedures; communications and operations security policies, directives, programming, procedures, and equipment; and recognizing and reporting signal interference.
3.2. Education. For entry into this specialty, completion of high school or general educational development equivalency with courses in typing, speech, English, computers, and electronics is desirable.
3.3. Training. The following training is mandatory for award of the AFSC indicated:
3.3.1. 3C131. Completion of a basic radio communications systems course.
3.3.2. 3C171. Completion of the advanced radio communications systems course.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 3C151. Qualification in and possession of AFSC 3C131. Also, experience in fixed or tactical radio operations.
3.4.2. 3C171. Qualification in and possession of AFSC 3C151. Also, experience performing or supervising radio operations in a fixed or tactical environment.
3.4.3. 3C191. Qualification in and possession of AFSC 3C171. Also, experience managing or directing radio operations functions.
3.5. Other. The following are mandatory as indicated:
3.5.1. For entry, award, and retention of these AFSCs, ability to speak English distinctly.
3.5.2. For award and retention of AFSCs 3C131/51/71/91, eligibility for a Secret security clearance according to AFI 31-501, *Personnel Security Management Program*.

Attachment 23

CIVIL ENGINEERING CAREER FIELD (3E)

INTRODUCTION
(Changed 31 Oct 97)

The Civil Engineering Career Field encompasses:

Mechanical and electrical activities to install, operate, maintain, and repair base direct support systems and equipment; electrical facilities; electrical power generation and distribution; and heating, ventilation, air conditioning and refrigeration systems and equipment, and their controls.

Structural and pavement activities, including construction and maintenance of structural facilities and pavement areas; maintaining pavements, railroads, and soil bases; performing erosion control; operating heavy equipment; structural and metal fabricating, construction, and maintenance; engineering specialists; and operations functions.

Utilities systems functions such as operation, maintenance, repair, and construction of plumbing, water, and wastewater systems and their components; fuel system maintenance; and pest management.

Fire protection, including preventing, controlling, and extinguishing all types of fire occurring on the ground, and performing related rescue, first aid, and property preservation; potential of fires involving facilities, operational processes, wildlands, aerospace vehicles, weapons, and hazardous or other materials; operation and operator maintenance of all types of crash fire rescue and support vehicles; tools and equipment; and services in support of base emergency disaster operations.

Explosive ordnance disposal (EOD) activities, including detecting, identifying, rendering safe, recovering, and destroying United States and foreign explosive, incendiary, and nuclear ordnance; supervising EOD functions and resolving technical problems of EOD and the procedures of neutralizing and disposing of improvised explosive devices; and performing as specialized members of the disaster response force.

Readiness activities, including personnel training to accomplish the primary mission under the handicaps imposed by enemy attack and by acts of man and nature; training in detecting, measuring, and decontaminating nuclear, biological, and chemical contaminants; providing and using proper protective equipment; and day-to-day operations requiring establishing, training, and equipping a disaster response force to handle all types of peacetime accidents and requests for assistance from the civilian community.

The Civil Engineering Career Field is a contingency related career field. Personnel serving in this career field may participate in recovery operation as a result of natural and manmade disasters, or be subject to deployment and employment in hostile environments created by terrorism, sabotage, or chemical, biological, or conventional warfare. Individuals should have knowledge of contingency skills such as first aid procedures, field sanitation and hygiene, work party security, repair and construction methods, beddown procedures, personal weapons, chemical warfare defense, and explosive ordnance reconnaissance.

Excluded from this career field are functions of maintenance and repair of ground support equipment that are included in the Manned Aerospace Maintenance Career Field (2A) and medical care of injured personnel (other than emergency first aid) which is included in the Medical Career Field (4X). The following is a complete listing of AFSCs for the Civil Engineering Career Field.

CIVIL-ENGINEERING (3E)											
Input or Helper Level		**Apprentice or Semiskilled Level**		**Journeyman or Skilled Level**		**Craftsman or Advanced Level**		**Superintendent Level**		**Chief Enlisted Manager Level**	
3E011	Electrical Sys	3E031	Electrical Sys	3E051	Electrical Sys	3E071	Electrical Sys	3E090	Electrical	3E000	Civil Engineer
3E012	Electric Power Production	3E032	Electric Power Production	3E052	Electric Power Production	3E072	Electric Power Production				
3E111	Heating, Vent, A/C, & Refrig	3E131	Heating, Vent, A/C, & Refrig	3E151	Heating, Vent, A/C, & Refrig	3E171	Heating, Vent, A/C, & Refrig	3E191	Heating, Vent, A/C, & Refrig		
3E211	Pavements & Const Equip	3E231	Pavements & Const Equip	3E251	Pavements & Const Equip	3E271	Pavements & Const Equip	3E291	Pavements & Const Equip		
3E311	Structural	3E331	Structural	3E351	Structural	3E371	Structural	3E391	Structural		
3E411	Utilities Sys	3E431	Utilities Sys	3E451	Utilities Sys	3E471	Utilities Sys	3E490	Utilities Sys		
3E412	Liquid Fuel Sys Maint	3E432	Liquid Fuel Sys Maint	3E452	Liquid Fuel Sys Maint	3E472	Liquid Fuel Sys Maint				
3E413	Environ-mental	3E433	Environ-mental	3E453	Environ-mental	3E473	Environmental				
3E511	Engineering	3E531	Engineering	3E551	Engineering	3E571	Engineering	3E591	Engineering		
3E611	Operations	3E631	Operations			3E671	Operations	3E691	Operations		
3E711	Fire Protection	3E731	Fire Protection	3E751	Fire Protection	3E771	Fire Protection	3E791	Fire Protection	3E700	Fire Protection
3E811	Explosive Ordnance Disposal	3E831	Explosive Ordnance Disposal	3E851	Explosive Ordnance Disposal	3E871	Explosive Ordnance Disposal	3E891	Explosive Ordnance Disposal	3E800	Explosive Ordnance Disposal
3E911	Readiness	3E931	Readiness	3E951	Readiness	3E971	Readiness	3E991	Readiness	3E900	Readiness

Attachment 24

HISTORIAN CAREER FIELD (3H)

INTRODUCTION

The Historian Career Field encompasses activities to document Air Forces historical activities. Historian personnel are involved in researching, writing, editing, and organizing historical data; maintaining historical files and repositories; conducting interviews; historical studies; documenting important deliberations and decisions; and deploying to meet operational contingency and wartime requirements to document significant events and submit historical reports. The following is a complete listing of AFSCs for the Historian Career Field.

HISTORIAN (3H)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
3H011 Historian	3H031 Historian	3H051 Historian	3H071 Historian	3H091 Historian	3H000 Historian

Attachment 25

SERVICES CAREER FIELD (3M)

INTRODUCTION
(Changed 31 Oct 94)

The Airman Services Career Field includes managing, supervising, and administering or operating appropriated and nonappropriated fund food facilities; transient and temporary lodging facilities; fitness and recreation programs and facilities; mortuary affairs administration; operational support; training and supervising search and recovery teams; training, scheduling, and overseeing installation honor guard team; training and advising unit fitness managers in fitness evaluation procedures and conducting fitness improvement training programs; selecting, procuring, and controlling equipment and supplies; providing lodging, feeding, and recreation services in fixed and bare base facilities; providing liaison support to the Defense Commissary Agency and the Army and Air Force Exchange Service; performing quality assurance functions when areas of responsibility are performed by contract; operating and administering information management systems used to support functional responsibilities; and providing direction for other essential community services by planning and conducting surveys to determine interests and attitudes of the military population and their dependents.

Also included are commissary resale; operation of troop support and subsistence activities; and automated systems operation to support authorized personnel. Personnel must have knowledge of and proficiency in the use of specialized equipment and procedures required to provide subsistence and exchange support to deployed forces. Support may be provided in either fixed or tactical facilities.

The Airman Services Career Field is a contingency-related field. Personnel serving in this career field may participate in recovery operations as a result of natural and manmade disasters. Also, they may be subject to deployment and employment in hostile environments created by terrorism, sabotage, or chemical, biological, or conventional warfare. Personnel should have knowledge of and proficiency using specialized equipment and procedures required to provide food, shelter, laundry, first aid, field sanitation and hygiene, mortuary service, recreation, and physical fitness to deployed forces. The following is a complete listing of AFSCs for the Services Career Field.

SERVICES (3M)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
3M011 Services	3M031 Services	3M051 Services	3M071 Services	3M091 Services	3M000 Services

Attachment 26

PUBLIC AFFAIRS CAREER FIELD (3N)

INTRODUCTION

The Public Affairs Career Field encompasses the total spectrum of the Air Forces human communication activities and functions involved in administering and operating Air Force bands, including the USAF Academy and USAF Bands. The functions are designed to facilitate communication flow between the Air Force and the general public, as well as active duty Air Force members, Reserve components, civilian employees, and dependents. Public Affairs personnel are involved in writing, editing and publishing; arranging and conducting special events; military community relations; orientation programs; news media relations; and research, interviewing, reporting, administrative, and management tasks. All print and electronic communication media are used along with interpersonal communication techniques. The Public Affairs Career Field serves the United States Air Force by providing professional, trained communication practitioners to leaders and managers for planning, executing, and reporting internal and public interest policy, plans, and programs. The following is a complete listing of AFSCs for the Public Affairs Career Field.

PUBLIC AFFAIRS (3N)											
Input or Helper Level		Apprentice or Semiskilled Level		Journeyman or Skilled Level		Craftsman or Advanced Level		Superintendent Level		Chief Enlisted Manager Level	
3N011	Public Affairs	3N031	Public Affairs	3N051	Public Affairs	3N071	Public Affairs	3N090	Public Affairs	3N000	Public Affairs
3N012	Radio/TV Broadcast	3N032	Radio/TV Broadcast	3N052	Radio/TV Broadcast	3N072	Radio/TV Broadcast				
3N111	Regional Band	3N131	Regional Band	3N151	Regional Band	3N171	Regional Band	3N190	Regional Band	3N100	Regional Band
A	Clarinet	A	Clarinet	A	Clarinet	A	Clarinet				
B	Saxophone	B	Saxophone	B	Saxophone	B	Saxophone				
C	Bassoon	C	Bassoon	C	Bassoon	C	Bassoon				
D	Oboe	D	Oboe	D	Oboe	D	Oboe				
E	Flute/Piccolo	E	Flute/Piccolo	E	Flute/Piccolo	E	Flute/Piccolo				
F	French Horn	F	French Horn	F	French Horn	F	French Horn				
G	Cornet/Trmpt	G	Cornet/Trmpt	G	Cornet/Trmpt	G	Cornet/Trmpt				
H	Bartn/Euponi m	H	Bartn/Euponi m	H	Bartn/Euponi m	H	Bartn/Euponim				
J	Trombone	J	Trombone	J	Trombone	J	Trombone				
K	Tuba	K	Tuba	K	Tuba	K	Tuba				
L	Percussion	L	Percussion	L	Percussion	L	Percussion				
M	Piano	M	Piano	M	Piano	M	Piano				
N	Guitar	N	Guitar	N	Guitar	N	Guitar				
P	Music Arrng	P	Music Arrng	P	Music Arrng	P	Music Arrng				
R	Vocalist	R	Vocalist	R	Vocalist	R	Vocalist				
S	Elect/Strg Bass	S	Elect/Strg Bass	S	Elect/Strg Bass	S	Elect/Strg Bass				
T	Mil Band Spt (USAF or USAFA)	T	Mil Band Spt (USAF or USAFA)	T	Mil Band Spt (USAF or USAFA)	T	Mil Band Spt (USAF or USAFA)				
V	Audio & Lighting Eng	V	Audio & Lighting Eng	V	Audio & Lighting Eng	V	Audio & Lighting Eng				
Z	Instmlist, Gen (ANG Bands)	Z	Instrmlist, Gen (ANG Bands)	Z	Instrmlist, Gen (ANG Bands)	Z	Instrmlist, Gen (ANG Bands)				
3N211	Premier Band	3N231	Premier Band			3N271	Premier Band	3N291	Premier Band	3N200	Premier Band

Attachment 27

SECURITY FORCES CAREER FIELD (3P)

INTRODUCTION
(Changed 31 Oct 97)

The Security Forces (SF) Career Field performs force protection duties. SF duties require the use of force, up to and including the use of deadly force. SF duties ensure combat capability through the functions of installation security, nuclear and conventional weapon systems and resources security, air base defense, law enforcement, information security, military working dog activities, and combat arms training and maintenance. Security Forces participate in contingency operations. Personnel in this career field will be deployed and employed in sensitive or hostile environments created by terrorism, sabotage, nuclear, chemical, biological, or conventional warfare. Security Force members perform the military police function within the Air Force.

This career field does not have primary responsibility for the functions of operations security; computer security; communications security; and vehicle traffic engineering and traffic safety. Responsibility for these functions is included in other career fields. The following is a complete listing of AFSCs for the Security Forces Career Field.

SECURITY POLICE (3P)											
Input or Helper Level		**Apprentice or Semiskilled Level**		**Journeyman or Skilled Level**		**Craftsman or Advanced Level**		**Superintendent Level**		**Chief Enlisted Manager Level**	
*3P011	Security Forces	*3P031	Security Forces	*3P051	Security Forces	3P071	Security Forces	3P091	Security Forces	3P000	Security Forces
A	Mil Working Dog Handler	A	Mil Working Dog Handler	A	Mil Working Dog Handler						
B	Combat Arms	B	Combat Arms	B	Combat Arms						

Attachment 28

PRINTING MANAGEMENT CAREER FIELD (3R)

INTRODUCTION

The Printing Management Career Field includes operating and managing printing and duplicating services and centers. Specific duties include setting and carrying out policies, procedures, and standards concerning printing and reprographics; and maintaining printing and duplicating equipment. Other functions included are photolithographic and lithographic offset processes; printing and binding operations; and copier management programs. The following is a complete listing of AFSCs for Printing Management Career Field.

PRINTING MANAGEMENT (3R)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
3R011 Printing Management	3R031 Printing Management	3R051 Printing Management	3R071 Printing Management	3R091 Printing Management	3R000 Printing Management

Attachment 29

MISSION SUPPORT CAREER FIELD (3S)

INTRODUCTION

The Mission Support Career Field includes functions and activities of personnel, personnel system management (PSM), social actions, and education and training.

Personnel and PSM functions encompass classifying, assigning, promoting, base reenlisting and separating military personnel; personnel systems management; controlling, administering, and interpreting personnel tests used to measure general learning ability, specific aptitudes, job proficiency, interests, and other pertinent human variables; processing officer effectiveness reports and airman performance reports; monitoring quality control programs; advising military personnel and their dependents on personal affairs; preparing and maintaining qualification records and other personnel records and reports; developing and maintaining manual and mechanized personnel records and reports; occupational surveys; and collecting elementary psychological data for human resources research.

Social actions functions include counseling, educational, and administrative functions to support social actions program.

Education and training activities include training systems development and management, and education services. Training systems involves developing and managing training programs; supervising training activities; providing advice and guidance on enlisted specialty training (EST); and EST advisory services and duties associated with other training functions. Education services involves administering off-duty education programs; advisement on education programs; and maintaining educational services facilities including office libraries containing educational materials and bulletin boards.

The duty of airmen assigned to separation functions as principal duty will be identified by AFSCs 35071/51. The duty of airman recruiters assigned to the United States Air Force Recruiting Service will be identified by Special Duty Identifier 8R000. The following is a complete listing of AFSCs for the Mission Support Career Field.

MISSION SUPPORT (3S)											
Input or Helper Level		Apprentice or Semiskilled Level		Journeyman or Skilled Level		Craftsman or Advanced Level		Superintendent Level		Chief Enlisted Manager Level	
3S011	Personnel	3S031	Personnel	3S051	Personnel	3S071	Personnel	3S090	Personnel	3S000	Personnel
3S012	Personnel Sys Management	3S032	Personnel Sys Management	3S052	Personnel Sys Management	3S072	Personnel Sys Management				
3S111	Equal Opportunity & Treatment	3S131	Equal Opportunity & Treatment			3S171	Equal Opportunity &Treatment	3S191	Equal Opportunity &Treatment	3S100	Equal Opportunity & Treatment
3S211	Education & Training	3S231	Education & Training	3S251	Education & Training	3S271	Education & Training	3S291	Education & Training	3S200	Education & Training

Attachment 30

MANPOWER CAREER FIELD (3U)

INTRODUCTION

The Manpower Career Field encompasses manpower management activities, including developing and maintaining manpower standards, analysis of methods, procedures, organizational structures, manning authorizations, manpower use, military-civilian mix, manpower force elements, contractual services, and using various data systems. The following is a complete listing of AFSCs for the Manpower Career Field.

MANPOWER (3U)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
3U011 Manpower and Quality Management	3U031 Manpower and Quality Management		3U071 Manpower and Quality Management	3U091 Manpower and Quality Management	3U000 Manpower and Quality Management

Attachment 31

VISUAL INFORMATION CAREER FIELD (3V)

INTRODUCTION

The Visual Information Career Field encompasses all service, production-documentation, and photoprocessing functions associated with visual information library, presentations, editorial, graphics, conventional and technical still photography, optical instrumentation, motion picture photography, television, and sound recording. Included are armament recording and other nonreconnaissance airborne image acquisition functions and base, dedicated mission, or reconnaissance photo-processing.

Excluded from this career field are photointerpretation and depot or field maintenance or visual information equipment functions that have been incorporated into Intelligence and Imagery Equipment Maintenance specialties. The following is a complete listing of AFSCs for Visual Information Career Field.

VISUAL INFORMATION (3V)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
3V011 Visual Information	3V031 Visual Information	3V051 Visual Information	3V071 Visual Information	3V090 Visual Information Services	3V000 Visual Information
3V012 Still Photographic	3V032 Still Photographic	3V052 Still Photographic	3V072 Still Photographic		
3V013 Visual Information Production - Documentation	3V033 Visual Information Production - Documentation	3V053 Visual Information Production - Documentation	3V073 Visual Information Production - Documentation		

Attachment 32

MEDICAL CAREER FIELD (4X EXCEPT 4Y)

INTRODUCTION

The Medical Career Field encompasses functions involved in operating both fixed and tactical medical facilities and subprofessionally caring for and treating authorized personnel. This career field includes aeromedical activities, aerospace physiology, specialized medical services including ophthalmology, otorhinolaryngology, orthopedics, urology, allergy and immunology, optometry, nuclear medicine and cardiopulmonary techniques, electroencephalographic studies, physical therapy, occupational therapy, orthotics, operating room, mental health services, radiology, medical laboratory, histopathology, cytotechnology, pharmacy, diet therapy, medical administration, medical materiel, bioenvironmental engineering, and environmental medicine, including laboratory animal techniques and medical equipment.

Excluded from this career field are dental and rescue and survival functions. These functions are included in the Dental Career Field and Protection Career Field.

All personnel of the USAF Medical Service must have knowledge of and be proficient in military sanitation and first aid procedures, to include shock management; effective respiration maintenance (mouth-to-mouth resuscitation with or without adjunct); hemorrhage control; emergency wound treatment; management of fractures, burns, and injuries from chemical agents; hand and litter carrier methods; and loading and unloading vehicles used for patient transportation.

All personnel of the USAF Medical Service must have knowledge of and be proficient in the operation and first echelon maintenance of all equipment used by the respective Air Force specialty, and must be familiar with improvisation and conversion methods of fixed types of medical equipment for tactical use. The following is a complete listing of AFSCs for the Medical Career Field.

MEDICAL (4X) (EXCEPT 4Y)											
Input or Helper Level		Apprentice or Semiskilled Level		Journeyman or Skilled Level		Craftsman or Advanced Level		Superintendent Level		Chief Enlisted Manager Level	
4A011	Health Services Management	4A031	Health Services Management	4A051	Health Services Management	4A071	Health Services Management	4A091	Health Services Management	4A000	Health Services Management
4A111	Medical Materiel	4A131	Medical Materiel	4A151	Medical Materiel	4A171	Medical Materiel	4A191	Medical Materiel	4A100	Medical Materiel
4A211	Biomedical Equip	4A231	Biomedical Equip	4A251	Biomedical Equip	4A271	Biomedical Equip	4A291	Biomedical Equip	4A200	Biomedical Equip
4B011	Bioenviron-mental Eng	4B031	Bioenviron-mental Eng	4B051	Bioenviron-mental Eng	4B071	Bioenviron-mental Eng	4B091	Bioenviron-mental Eng	4B000	Bioenviron-mental Eng
4C011	Mental Health Service	4C031	Mental Health Service	4C051	Mental Health Service	4C071	Mental Health Service	4C091	Mental Health Service	4C000	Mental Health Service
4D011	Diet Therapy	4D031	Diet Therapy	4D051	Diet Therapy	4D071	Diet Therapy	4D091	Diet Therapy	4D000	Diet Therapy
4E011	Public Health	4E031	Public Health	4E051	Public Health	4E071	Public Health	4E091	Public Health	4E000	Public Health
4F011	Aeromedical	4F031	Aeromedical	4F051	Aeromedical	4F071	Aeromedical	4F091	Aeromedical	4F000	Aeromedical
4H011	Cardiopul-monary Lab	4H031	Cardiopul-monary Lab	4H051	Cardiopul-monary Lab	4H071	Cardiopul-monary Lab	4H091	Cardiopul-monary Lab	4H000	Cardiopulmonary Lab
4J011	Occ Therapy	4J031	Occ Therapy	4J051	Occ Therapy	4J071	Occ Therapy	4J091	Occ Therapy	4J000	Biomedical
4J012	Physical Therapy	4J032	Physical Therapy	4J052	Physical Therapy	4J072	Physical Therapy	4J092	Physical Therapy		Therapy
4M011	Aerosp Physiol	4M031	Aerosp Physiol	4M051	Aerosp Physiol	4M071	Aerosp Physiol	4M091	Aerosp Physiolo	4M000	Aerosp Physiol
4N011	Medical Svc	4N031	Medical Svc	4N051	Medical Svc	4N071	Medical Svc	4N091	Medical Svc	4N000	Medical Svc
A	Allergy/-Immun	A	Allergy/-Immun	A	Allergy/-Immun						
B	Neurology	B	Neurology	B	Neurology						
4N111	Surgical Svc	4N131	Surgical Svc	4N151	Surgical Svc	4N171	Surgical Svc	4N191	Surgical Svc		

MEDICAL (4X) (EXCEPT 4Y)											
Input or Helper Level		Apprentice or Semiskilled Level		Journeyman or Skilled Level		Craftsman or Advanced Level		Superintendent Level		Chief Enlisted Manager Level	
B	Urology	B	Urology	B	Urology	B	Urology				
C	Orthopedics	C	Orthopedics	C	Orthopedics	C	Orthopedics				
D	Otorhinolarn-gology	D	Otorhinolarn-gology	D	Otorhinolarn-gology	D	Otorhinolarn-gology				
4P011	Pharmacy	4P031	Pharmacy	4P051	Pharmacy	4P071	Pharmacy	4P091	Pharmacy	4P000	Pharmacy
4R011	Diagnostic Imaging	4R031	Diagnostic Imaging	4R051	Diagnostic Imaging	4R071	Diagnostic Imaging	4R090	Diagnostic Imaging	4R000	Diagnostic Imaging
A	Nuclear Medicine	A	Nuclear Medicine	A	Nuclear Medicine	A	Nuclear Medicine				
B	Ultrasound	B	Ultrasound	B	Ultrasound	B	Ultrasound				
C	Magnetic Resonance	C	Magnetic Resonance	C	Magnetic Resonance	C	Magnetic Resonance				
4T011	Medical Lab	4T031	Medical Lab	4T051	Medical Lab	4T071	Medical Lab	4T090	Medical Lab	4T000	Medical Lab
4T012	Histopatho-logy	4T032	Histopatho-logy	4T052	Histopatho-logy	4T072	Histopatho-logy				
4T013	Cytotech-nology	4T033	Cytotech-nology	4T053	Cytotech-nology	4T073	Cytotech-nology				
4U011	Orthotic	4U031	Orthotic	4U051	Orthotic	4U071	Orthotic	4U091	Orthotic	4U000	Orthotic
4V011	Optometry	4V031	Optometry	4V051	Optometry	4V071	Optometry	4V090	Optometry	4V000	Optometry
A	Ophthal-mology	A	Ophthal-mology	A	Ophthal-mology	A	Ophthal-mology				

Attachment 32

CEM Code 4A000
AFSC 4A091, Superintendent
AFSC 4A071, Craftsman
Journeyman AFSC 4A051
Apprentice AFSC 4A031
Helper AFSC 4A011

HEALTH SERVICES MANAGEMENT
(Changed 30 Apr 98)

1. Specialty Summary. Manages health services activities. Plans, develops, manages, and performs health services activities. Related DoD Occupational Subgroup: 340.

2. Duties and Responsibilities:
2.1. Performs and directs beneficiary service functions. Prepares health record copies and abstracts. Prepares, files, safeguards, transfers, and retires health records. Maintains patient locator and suspense files. Prepares, codes, and transmits clinical record cover sheets. Schedules beneficiary appointments. Transcribes daily information onto charts. Transcribes physicians' orders, and prepares requests for diagnostic tests, consultations, and referrals. Performs functions to admit, discharge, and transfer patients. Compiles information and prepares reports, graphs, and charts on bed occupancy, staffing, dental health, subsistence accounting, medical care from civilian sources, and professional activities. Screens medical records to gather data for medical audits. Prepares patient-related correspondence and special orders for patient assignment, reassignment, or aeromedical evacuation. Performs procedures for network referrals. Provides claims assistance and counseling to beneficiaries. Performs and prepares reports on market analysis and business-case analysis.
2.2. Performs and manages health services management functions. Interprets communications, directives, and publications. Ensures compliance with directives. Maintains special programs. Develops strategic resourcing plans. Coordinates with other activities, agencies, and organizations. Conducts inspections, interprets inspection findings and recommends corrective action. Evaluates work performed, training effectiveness, and overall efficiency.
2.3. Performs and manages resource management functions. Prepares and processes payment vouchers for services to beneficiaries. Prepares financial statements and subsistence stock records. Coordinates third party collection activities and prepares necessary reports. Assists in manpower surveys and developing manpower standards. Identifies manpower standard exceptions and deviations. Analyzes workload and cost data to validate manpower requirements, and develops adjustments and projections to support clinical or mission changes. Collects, maintains, prepares, and analyzes medical expense and performance reporting systems data. Prepares budget estimates and financial plans. Monitors expenditures and obligations; analyzes financial reports and accounting and workload reporting procedures; conducts studies and internal audits.
2.4. Performs and manages medical information systems functions. Requests and documents technical assistance. Manages hardware and software activities. Monitors information technology security programs. Performs customer support activities. Manages information systems user training programs.

3. Specialty Qualifications:
3.1. Knowledge. Knowledge is mandatory of: general clerical procedures; medical terminology, regulations, and directives; medical ethics; health records administration; patient movement; office management methods; anatomy and physiology.
3.2. Education. For entry into this specialty, completion of high school or General Education Development equivalency with courses in biology, health, business administration, typing, and computers is desirable.
3.3. Training. For award of AFSC 4A031, completion of a basic health services management course is mandatory.
3.4. Experience. The following experience is mandatory for award of the AFSC indicated:
3.4.1. 4A051. Qualification in and possession of AFSC 4A031. Also, experience in one or more of the following functions: records management, admissions and dispositions, or patient movement
3.4.2. 4A071. Qualification in and possession of AFSC 4A051. Also, experience supervising a health services management function.
3.4.3. 4A091. Qualification in and possession of AFSC 4A071. Also, experience managing a health services management function and personnel.
3.5. Other. For award of AFSC 4A031, ability to keystroke at a minimum speed of 20 words per minute is mandatory.

Attachment 33

DENTAL CAREER FIELD (4Y)

INTRODUCTION
(Changed 30 Apr 95)

The Dental Career Field encompasses functions involved in operating dental facilities and paraprofessional dental care. This career field includes dental administration, dental health services, limited treatment of oral tissues, fabricating prosthodontic appliances, and serves as auxiliaries to dental officers in treating patients.

Excluded from this career field are functions of operating medical facilities and paraprofessional medical care of authorized personnel. These functions are included in the Medical Career Field (4X). The following is a complete listing of AFSCs for Dental Career Field.

DENTAL (4Y)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
4Y011 Dental Assistant 4Y012 Dental Lab	4Y031 Dental Assistant 4Y032 Dental Lab	4Y051 Dental Assistant 4Y052 Dental Lab	4Y071 Dental Assistant 4Y072 Dental Lab	4Y090 Dental	4Y000 Dental

Attachment 34

PARALEGAL CAREER FIELD (5J)

INTRODUCTION

The Paralegal Career Field encompasses functions relating to military justice, including court reporting, administrative boards reporting, accident and collateral investigations, depositions, and other legal proceedings; conducting legal services for commanders and Air Force members as authorized by Congress relating to civil law; preparing and maintaining legal documents under the direct supervision of Air Force attorneys in compliance with American Bar Association Standards; investigating claims filed for and against the Air Force; and investigation and trial assistance provided to defense attorneys in support of USAF trial judiciary. The following is a complete listing of AFSCs for the Paralegal Career Field.

PARALEGAL (5J)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
5J011 Paralegal	5J031 Paralegal	5J051 Paralegal	5J071 Paralegal	5J091 Paralegal	5J000 Paralegal

Attachment 35

AIRMAN CHAPLAIN SERVICE SUPPORT CAREER FIELD (5R)

INTRODUCTION
(Changed 31 Oct 94)

The Airman Chaplain Service Support Career Field provides comprehensive support of wing level ministry. Air Force policy directives require the Chaplain Service to provide religious support to military members and dependents during peacetime, combat operations, contingencies, and exercises. Duties include providing essential support to Air Force chaplains' pastoral and religious responsibilities, and as members of chaplain readiness teams. Chaplain service support personnel serve in the Air Force Chaplain Service as enlisted, nonclergy members who are trained to understand religious sensitivities and support distinctive ministry needs of the pluralistic military community. The following is a complete listing of AFSCs for the Airman Chaplain Service Support Career Field.

CHAPLAIN SERVICE SUPPORT (5R)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
5R011 Chaplain Service Support	5R031 Chaplain Service Support	5R051 Chaplain Service Support	5R071 Chaplain Service Support	5R091 Chaplain Service Support	5R000 Chaplain Service Support

Attachment 36

CONTRACTING CAREER FIELD (6C)

INTRODUCTION

The Contracting Career Field encompasses the purchasing of equipment, supplies, services, and construction through negotiation or formal advertising methods or both. This field involves soliciting bids; preparing, processing, awarding, and administering contractual documents; maintaining records of obligations, bid deposits, and miscellaneous purchasing transactions; and providing for contract repair services. Contracting tasks also include recognizing, coding, interpreting, and using automated products; providing input and making analysis of output generated by the base contracting automation system; and inspecting and evaluating contracting activities. The following is a complete listing of AFSCs for the Contracting Career Field.

CONTRACTING (6C)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
6C011 Contracting	6C031 Contracting	6C051 Contracting	6C071 Contracting	6C091 Contracting	6C000 Contracting

Attachment 37

FINANCIAL CAREER FIELD (6F)

INTRODUCTION

The Financial Career Field involves:

Receiving, disbursing, and accounting for public funds; appropriation and expense, cost, working capital, and real property accounting, including reporting and analyzing costs of programs and operations; formulating, executing, and analyzing financial programs; and examining and verifying all Air Force financial and management operations.

Collecting, processing, recording, controlling, analyzing, and interpreting special and recurring reports, statistical data, and other information pertaining to personnel, training, supply, aircraft, costs, operations, equipment, facilities, maintenance, organization, programs, progress, and related subjects under conditions ranging from normal operations to actual conflict. It also covers conducting comparative analysis and preparing analytical summaries for use in managing command resources, including personnel, materiel, time, and money.

Excluded from this career field are the functions involved in maintaining supply records and accounting for requesting, receiving, and issuing Air Force equipment and supplies. The following is a complete listing of AFSCs for the Financial Career Field.

FINANCIAL (6F)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
6F011 Financial Management	6F031 Financial Management	6F051 Financial Management	6F071 Financial Management	6F091 Financial Management	6F000 Financial
6F111 Financial Analysis	6F131 Financial Analysis	6F151 Financial Analysis	6F171 Financial Analysis	6F191 Financial Analysis	

Attachment 38

SPECIAL INVESTIGATIONS CAREER FIELD (7S)

INTRODUCTION

The Special Investigations Career Field encompasses functions involved in performing the counterintelligence investigative mission within the Air Force, including investigations pertaining to sabotage, espionage, subversive activities, treason, sedition, personnel disaffection, security violations, antiterrorism, and other related matters; conducting special investigations of major criminal violations of the Uniform Code of Military Justice and applicable federal statutes, including fraud and conspiracy matters with emphasis on procuring and disposing property; conducting personnel background investigations in overseas areas to support the Defense Investigative Service; and conducting investigations of a "special inquiry" nature that may be requested or directed by competent authority.

Excluded from this career filed are functions of air intelligence to prevent strategic, tactical, or technological surprise and to support planning and conducting air operations. These functions are included in the Intelligence Career Field. The following is a complete listing of AFSCs for the Special Investigations Career Field.

SPECIAL INVESTIGATION (7S)					
Input or Helper Level	**Apprentice or Semiskilled Level**	**Journeyman or Skilled Level**	**Craftsman or Advanced Level**	**Superintendent Level**	**Chief Enlisted Manager Level**
7S011 Special Investigations	7S031 Special Investigation		7S071 Special Investigation	7S091 Special Investigation	7S000 Special Investigation

Attachment 39

ADDITIONAL MANDATORY REQUIREMENTS FOR AFSC ENTRY

INTRODUCTION

1. This attachment establishes minimum requirements for:
1.1. Aptitude:
1.1.1. Mechanical, administrative, general, or electronic (MAGE) aptitude scores derived from the Armed Forces Vocational Aptitude Battery or Armed Forces Classification Test.
1.1.2. Strength aptitude codes are reflected in Column X and identify strength standards required for entry into each AFSC. Strength aptitude is defined in AFI 36-2101, *Classifying Military Personnel (Officers and Airmen)* and testing procedures for retrainees are outlined in AFI 36-2626, *Airman Retraining Program*.

Code	Demonstrated by Weight Lift of
E	Unknown
F	less than 40 lbs
G	40 lbs
H	50 lbs
J	60 lbs
K	70 lbs
L	80 lbs
M	90 lbs
N	100 lbs
P	110 lbs

1.2. Physical profile series factor (PULHES), as defined in AFI 48-123 , *Medical Examination and Standards.*
1.3. Other AFSC entry requirements or restrictions:
1.3.1. Column M reflects AFSCs authorized for use without shredouts.
1.3.2. Column N reflects AFSCs not open to non-United States citizens. AFSCs identified in this column are open to United States nationals.
1.3.3. Column O reflects AFSCs currently not authorized for award to enlisted women.
2. Refer to paragraph 3 of individual specialty descriptions for additional AFSC entry requirements.

MANDATORY AFSC ENTRY REQUIREMENTS

AFSC	Note(s)	APTITUDE					PHYSICAL PROFILE						OTHER		
		M	A	G	E	X	P	U	L	H	E	S	M	N	O
3E7X1				39		N	1	1	1	2	2	1		X	
3E8X1	2	61		60		H	3	3	3	1	3	1		X	
3E9X1				58		H	2	2	2	2	2	1		X	
3H0X1				69		G	3	3	3	2	3	3		X	
3M0X1				30		H	3	3	3	3	3	3			
3N0X1				69		G	3	3	3	3	3	3			
3N0X2				69		H	3	3	3	3	3	3			
3N1X1X	1		27	30		G	3	2	1	2	3	1			
3N2X1	1		27	30		G	3	2	1	2	3	1			
3P0X1				35		K	2	2	2	1	2	1	X	X	
3P0X1A				35		K	2	2	2	1	2	1		X	
3P0X1B		61				K	2	2	2	1	2	1		X	
3R0X1				30		G	3	3	3	2	3	3			
3S0X1			45			G	3	3	3	2	3	3			
3S0X2				43		G	3	3	2	2	3	3			
3S1X1	1		45	43		G	3	3	3	3	3	1			
3S2X1				56		G	3	3	3	3	3	3			
3U0X1				64		G	3	3	3	2	3	3			
3V0X1				43		G	3	3	3	2	3	3		X	
3V0X2				43		H	2	2	2	2	1	1		X	
3V0X3				58		J	2	2	2	2	1	1		X	
4A0X1				43		G	3	3	3	2	3	3			
4A1X1				43		H	3	3	3	3	2	3			
4A2X1				67		H	2	2	2	3	3	1			
4B0X1				48		H	3	3	3	3	2	3			
4C0X1				53		G	2	2	2	2	3	1			
4D0X1				43		G	3	3	3	2	3	2			
4E0X1				43		H	3	3	3	2	2	2			
4F0X1				43		H	1	1	1	2	2	1			
4H0X1				43		G	3	3	3	3	3	3			
4J0X1				53		G	2	2	2	2	2	1			
4J0X2				48		G	1	1	1	2	2	1			
4M0X1				43		G	3	3	3	2	3	3			
X4N0X1				43		K	2	2	2	1	2	1			
4N0X1				43		H	3	3	3	2	2	3	X		
4N0X1A				43		H	3	3	3	2	2	3			
4N0X1B				43		H	3	3	3	2	2	1			
4N1X1				43		G	3	3	2	3	3	3	X		
4N1X1B				43		G	3	3	2	3	3	3			
4N1X1C				43		G	3	3	2	3	3	3			
4N1X1D				43		G	3	3	2	3	3	3			
4P0X1				43		H	2	2	2	2	2	1			
4R0X1				43		G	3	3	3	2	3	3			
4R0X1A				43		G	3	3	3	2	3	3			
4R0X1B				43		H	3	3	3	2	3	3			
4R0X1C				43		H	3	3	3	2	3	3			
4T0X1				58		G	3	3	3	3	3	3			
4T0X2				43		G	3	3	3	3	3	3			
4T0X3				43		G	3	3	3	3	3	3			

AFSC	Note(s)	APTITUDE					PHYSICAL PROFILE						OTHER		
		M	A	G	E	X	P	U	L	H	E	S	M	N	O
4U0X1				43		G	3	3	3	3	3	3			
4V0X1				53		G	3	3	3	2	2	3	X		

Attachment 40

SPECIAL EXPERIENCE IDENTIFIERS

INTRODUCTION

1. Special Experience Identifiers (SEI). The SEIs in this attachment identify special experience and training not otherwise identified within the personnel data system (PDS). SEIs complement the assignment process but are not substitutes for AFSCs, CEM codes, prefixes, suffixes, SDIs, RIs, personnel processing codes, and professional specialty course codes. They are established when identifying experience or training is critical to the job and person assignment match, and no other identification is appropriate or available. SEIs permit rapid identification of a resource already qualified to meet unique circumstances, contingency requirements, or management needs. They provide a means to track individuals and identify positions requiring or providing unique experience or training that otherwise would be lost. SEIs are tied to the assignment process and are used to better distribute personnel and optimize the job and person match insofar as possible.

2. Authorized AFSCs. Unless indicated otherwise, AFSCs and CEM codes listed as authorized for use with SEIs refer to the basic AFSC plus all shredouts. All authorized skill levels of the basic AFSC are listed, including 9-skill levels and CEMs. If an AFSC is followed by an asterisk, then the SEI is authorized for use with the basic AFSC only; it is not authorized for use with suffixes of that AFSC.

3. SEI Structure. The SEI code is composed of three numeric characters (three alphanumeric characters for Air Intelligence Agency). Individual characters within the codes have no specific meaning. Most SEIs are authorized for award with specific AFSCs; some are authorized with any AFSC.

4. Establishing SEIs. Requests to establish, delete, or revise SEIs must be submitted according to the instructions in paragraph 5, page 4, this manual.

5. SEI Field in the PDS. PDS space limitations restrict the number of SEIs that may be concurrently recorded in an airman record to one with the control AFSC (CAFSC), five with the primary AFSC, five with the 2AFSC, four with the 3AFSC, three with the 4AFSC, and one in the general SEI area. Computer edits ensure the AFSC-SEI combinations are valid. The general area is used for SEIs authorized with any AFSC.

6. Computer-Generated SEI Award Notification (AFMAN 36-2622, volume 1, *Personnel Data Systems User's Manual*). The SEI is designated with the CAFSC when an airman is assigned to a unit manpower document (UMD) position identified with an SEI. If the UMD position is not identified with a specific SEI, any authorized SEI may be designated with the CAFSC when it is known that an individual working in that UMD position will gain special experience. After experience and training requirements have been satisfied, computer suspense notification will be provided as a reminder to award the SEI. Award suspense is performed for numeric SEIs only.

SPECIAL EXPERIENCE IDENTIFIERS (SEIs)
See Introduction for explanation of authorized AFSCs and designation criteria (paragraph 2 and 3)

MISCELLANEOUS SEIs

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes		
001	Arms Control	Requires 12 months experience and commander's recommendation.	2AXXX 2M071 2W071 3P090	2E5XX 2M072 2W1XX 3P071	2M090 2M073 2W2XX 3V072
002	Defense Intelligence College (DIC) Graduate	Requires graduation from the DIC Senior Enlisted Intelligence Program (SEIP) or the Post Graduate Intelligence Program (PGIP).	1NX00 8D000	1NX7X	1NX9X
004	Orderly Room/Unit Administration	Used to identify Health Services Management personnel and positions (AFSC 4A031/51/71) in Medical Treatment Facility orderly rooms that will convert to AFSCs 3S031/51/71. Specific guidance and instructions on the application and award of this SEI will be provided via message by HQ AFPC/DPPAC.	3S031/51/71/90 4A031/51/71		
006	Airborne Radar Systems	This SEI is to support the merger of AFSCs 1A5X1 and 1A5X3 effective 31 Oct 95. Authorized for award to all personnel possessing AFSC 1A5X3 prior to 31 Oct 95. Use of this SEI expires 31 Oct 97.	1A5X1		
007	Airborne Command and Control Communications Equipment	This SEI is to support the merger of AFSCs 1A3X1 and 1A5X2 effective 31 Oct 95. Authorized for award to all personnel possessing AFSC 1A5X2 prior to 31 Oct 95. Use of this SEI expires 31 Oct 97.	1A3X1		
009	Wholesale Logistics Experience	Member must have completed a 3 year career broadening program in an AFMC or Defense Logistics Agency (DLA) activity. SEI is awarded by HQ AFPC/DPAAD only.	2S000	2S071	2S090
013	Data Formatting Equipment Operator	Requires 6 months' experience and supervisor's recommendation.	2AXXX	2PXXX	
014	AFOSI Technical Services	Requires completion of AFOSI Basic Technical Training, OSITEC8200-000 (PDS code ZQY), plus certification by HQ AFOSI Technical Services Program Division.	7SXXX		
015	Special Technical Operations	Requires recommendation and certification by the Joint Staff.	1C3XX 2SXXX 3C2XX	1C5XX 3AXXX	1C6XX 3C000
016	Quality Air Force (QAF) Advisor	Requires a minimum of 100 hours of quality related training by a professional body such as the Air Force Quality Institute or American Society for Quality Control; one year of experience as a Quality Advisor to an organizational commander when more than 50 percent of individual's time is spent working quality issues or 6 months' experience when 100 percent of time is spent working quality issues; and wing or equivalent commander recommendation. ***NOTE***: Individuals previously qualified in SEI 092 - Air Force Quality Advisor may be awarded 016 based on their prior qualification.	1XXXX 4XXXX 7XXXX	2XXXX 5XXXX 8XXXX	3XXXX 6XXXX 9XXXX

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017	Quality Air Force (QAF) Facilitator	Requires graduation from a QAF facilitator course; facilitate or cofacilitate minimum of two process action teams (includes quality councils, other teams such as natural work teams, and semipar groups in formal courses at the Air Force Quality Institute or other organization-teaching (QAF); successfully demonstrate facilitation skills from start to finish under mentorship of a QAF qualified facilitator; and possess QAF Facilitator Certificate issued by a wing or equivalent commander. ***NOTE***: Individuals previously qualified in SEI 093 - Air Force Quality Facilitator, may be awarded 017 based on their prior qualification.	1XXXX 2XXXX 3XXXX 4XXXX 5XXXX 6XXXX 7XXXX 8XXXX 9XXXX
018	Quality Air Force (QAF) Instructor	Requires completion of all five formal QAF core courses and determination of proficiency to teach content material; proficiency determination in instructor areas of presentation and platform skills by a QAF Master Instructor; successful evaluation by a QAF Master Instructor, and possess a QAF Instructor Certificate issued by wing or equivalent commander.	
019	Quality Air Force (QAF) Master Instructor	Requires qualification as a QAF Instructor; have successfully taught all QAF core courses (Aware-ness, QAF Leaders, QAF Team Leader, QAF Facilitator, and QAF Team Member); successful completion of Advanced Instructional Systems course; successful evaluation by a QAF Master Instructor; and possess a QAF master Instructor Certificate signed by the Air Force Quality Institute and wing or equivalent commander.	
022	AN/TSC-107	Requires supervisor's recommendation and either (1) 10 months' experience; or (2) completion of AETC course E3AZR2E153-035 (PDS code 3PM) and 4 months' experience.	2E133/53/73
023	AN/TRC-170 Digital Troposcatter Radio	Requires completion of course E2ASR2E155-014 (PDS code 16T) and 6 months' experience; or 12 months' experience and supervisor's recommendation.	2E000 2E1X1 2E190
024	AN/TYC-39 and/or AN/TTC-39A	Requires completion of course E5ASA29570-000 (PDS code 3KR), E5ASA29570-001 (PDS code 2J9), or E5ASA30554-007 (PDS code 3KT) and 6 months' experience; or 12 months' experience plus supervisor's recommendation.	2E251/71/91
030	KN-S4100 Digital Telephone Switching System	Requires supervisor's recommendation and either (1) completion of course J5AZA36251-002 (PDS Code OKA) and 6 months' experience, or (2) 12 months' experience.	2E000 2E690 2E6X3
031	Crime Prevention/ Resources Protection	Requires (1) completion of AFIT course WCIPO7A, Crime Prevention Theory, Practice, and Management (PDS code 1F2); (2) 12 months' experience in crime prevention/resources protection duties; and (3) recommendation by the Base Chief of Security Police.	3P0XX
032	Budget Experience	Requires either (1) 12 months' experience in a budget position; or (2) completion of the advanced budget training course and 6 months' experience in a budget function.	6F000 6F0X1

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
033	Digital Telephone Switching Systems, Digital Multiplex Switch 100/200 and Meridian Stored Logic 100/200	Requires supervisor's recommendation and either: (1) 12 months' experience; or (2) 6 months' experience and completion of one of the following courses: J3AZR36251-003, Digital Switching Systems Techn (PDS code 65F); J1ASC36251-068, DMS 100/200 Systems Maint (Scope Dial) (PDS code 1GY); J1ASC36251-074, DMS 100 System Translations (Scope Dial) (PDS code 3J4); J1ASC36251-088, Translations (BIDDS) (PDS code 9FX); or J1ASC36251-089 Maint (BIDDS) (PDS code 9FY).	2E000 2E690 2E6X3
035	Forward Area Refueling Point (FARP)	Award requires successful completion of Phase I, II, and III FARP training and completion of Physiological Training; 6 months' experience and a minimum of 4 FARP missions; successful completion of CDC requirements for AFSC 2F051; Fuels Management Flight Commander's recommendation and squadron commander's certification.	2FXXX
036	Cryotainer Maintenance	Award requires completion of course J3AZR2F051-005 (PDS code DDG), 3 months' experience working in a cryogenics storage function, supervisor's recommendation, and commander's certification.	
037	Cryogenic Fluid Production	Requires completion of Cryogenic Fluid Production course and 3 months' experience working in a cryogenic plant or in production of cryogenic fluid.	
038	STREAMLINER System	Requires 9 months' experience and supervisor's recommendation, or formal training as follows: 3C0XXs course 3AZR29150-003 (PDS code U9V); 2E2X1s - course 3AZR30574-002 (PDS code TDX) or course X3AZR30574-012 (PDS code 6KO).	2E000 2E2X1
039	Aviation Fuels Monitor	Requires completion of 3AZR63150-1, Aviation Fuels Monitor course, C3AZR63150-001 or CAST63150-005, Fuels Quality Control Specialist (PDS code BYP), plus 6 months' experience.	2FXXX
040	Aviation Fuels Accounting	Requires completion of C4AST63150-005, Fuels Accounting, or 3AZR63150-2, Aviation Fuels Accounting (PDS code T3N), plus 6 months' experience.	2FXXX
042	Special Planner	Requires completion of a Special Plans course or seminar and practical special plans experience. Adequacy of special plans experience will be determined by the MAJCOM Special Planner and approved by HQ USAF/XOXP.	Any AFSC
043	Rockwell, Collins URG Equipment Maintenance	Requires 12 months' experience and specialized training as required.	2E000 2E190 2E1X3
045	Tactical Air Control System Direct Air Support Center/Air Support Operations Center (TACS DASC/ASOC)	Requires 6 months' experience in either a DASC or ASOC.	Any AFSC
046	Tactical Air Control System Airborne Battlefield Command and Control Center (TACS)	Requires 12 months' experience.	1A3XX 1A4XX 1C5XX 1N000 1N0X1 2A4X2 2A1X3 2A190 2A490
048	Joint Operations Planning	Requires the following: (1) 18 months' experience in	2GXXX

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
	System Automated Data Processing (JOPS ADP) User	a JOPS position at MAJCOM level or higher; (2) completion of JOPS user course; (3) completion of either the ATC JOPS Executive Orientation course, the ATC JOPS Systems Software Support course, or the JOPS CDTS course; and (4) thorough knowledge of(a) USAF War & Mobilization Plans, Vols I, III, & IV, procedures described in AFI 10-401 and JOPS Vols I through IV, and (b) JOPS ADP modules used in manipulation and analysis of OPLAN data.	
049	Joint Operation Planning and Execution (JOPES) Automated Data Processing (ADP) Technician	Requires (1) knowledge of USAF War and Mobilization Plans Volumes I, III, and IV procedures described in AFMAN 10-401, JOPES Volumes I and II; (2) knowledge of JOPES ADP modules used to manipulate and analyze OPLAN data; (3) completion of the Contingency Wartime Planning Course and JOPES course; and (4) 12 months' experience in deliberate and crisis action planning.	1XXXX 2XXXX 3XXXX 4XXXX 5XXXX 6XXXX 7XXXX 8XXXX 9XXXX
050	Contingency Operation/Mobility Planning and Execution System (COMES) Technician	Requires (1) knowledge of USAF War and Mobilization Plans Volumes I, III, and IV procedures described in AFMAN 10-401; (2) knowledge of COMPES modules used in inputting, extracting, manipulating, and analyzing OPLAN data; (3) completion of the Contingency Wartime Planning Course; and (4) 12 months' experience at major command or wing level in deliberate and crisis action planning.	
051	Worldwide Military Command and Control System (WWMCCS) Intercomputer Network (WIN) Operator	Requires (1) knowledge of WIN operations; (2) completion of the WIN course; and (3) 6 months' experience at major command, numbered Air Force, field operating agency, or wing WIN operations.	
052	Theater Battle Management (TBM)	Requires (1) knowledge of TBM command and control system (i.e., CTAPS); (2) completion of the Contingency Wartime Planning Course or Joint Doctrine Air Campaign Course; and (3) 6 months' experience in TBM duties.	
053	Ground Control Approach	Requires certification in arrival, arrival assistant, and radar final control, and recommendation by immediate supervisor and commander.	1C1XX
054	Ground Control Approach Watch Supervisor/Senior Controller	Requires qualification as a Watch Supervisor or Senior Controller.	
055	Control Tower Watch Supervisor/Senior Controller	Requires qualification as a Watch Supervisor or Seniord Controller	
056	Control Tower	Requires certification in local control, ground control, and flight data, and recommendation by immediate supervisor and commander.	
057	Seismic Technique	Award criteria is determined by AFTAC. These SEIs may be awarded and withdrawn by AFTAC only.	RI 9S100
058	Atmospheric Research Equipment		RI 9S200
059	Cryogenics Maintenance		

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
060	Laboratory Maintenance		
064	Combat Crew Training	Requires 12 months' experience and certification by immediate supervisor and commander.	1A0XX
065	Central Flight Instructor Course Instructor	Requires 12 months' experience, be a graduate of Central Flight Instructor Course, and certification by immediate supervisor and commander.	1A0XX
068	Subsurface Systems	Award criteria is determined by AFTAC. These SEIs may be awarded and withdrawn by AFTAC only.	RI 9S100
069	R & D		RI 9S100 RI 9S200
071	General Purpose Vehicle and Equipment Maintenance	Requires prior qualification in and possession of AFSC 2T470 or 2T4X1/X2 prior to 31 Oct 97. ***NOTE:*** This SEI will be deleted from the airman classification system 31 Oct 99.	2T470 2T4X1/X2
072	Special Purpose Vehicle and Equipment Maintenance	Requires prior qualification and possession of AFSC 2T370 or 2T3X1 or 2T3X2A/B prior to 31 Oct 97. ***NOTE:*** This SEI will be deleted from the airman classification system 31 Oct 99.	2T370 2T3X1 2T3X2A/B
073	KC-135 Boom Operator	Requires 24 months' experience and certification by immediate supervisor and commander.	1A0XX
074	EC/KC-135 Boom Operator	Requires 12 months' experience, must possess SEI 073, and be certified by immediate supervisor and commander.	
075	Alert Facility Manager	Requires 12 months' experience and certification by immediate supervisor and commander.	
076	Upgrade Manager		
077	Gas Analysis Laboratory	Award criteria is determined by AFTAC. These SEIs may be awarded and withdrawn by AFTAC only.	RI 9S200
078	Applied Physics Lab		
079	Chemistry Laboratory		
080	Program Management and Engineering		
084	Aircraft Flight Test	Requires 12 months' experience in flight test and evaluation of new or improved aircraft systems/sub-systems and recommendation by unit commander.	1AXXX 2AXXX 2E8XX 2PXXX 2S051 2S071 2T251 2W1XX
089	CORONET SPARK	Requires 6 months' experience and supervisor's recommendation. Final approval authority for designation is unit commander.	Any AFSC or CEM Code
090	Tanker/Airlift Control Element (TALCE)	Requires 9 months' experience in an authorized ALCE position and ALCE commander's recommendation.	1A0XX 1A2XX 1C000 1C0X1 1C0X2 2A000 2A190 2A1X3 2A300 2A4X2 2A490 2A600 2A6X2 2E000 2E190 2E1X3 3E0X0 3E0X2
095	Operational Test and	Requires 24 months' experience as an operational tester	1AXXX 1C000 1C0X2

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
	Evaluation (OT & E)	assigned to any headquarters or major command operational test activity (OTA) or deputy chief of staff (DCS) responsible for the conduct of OT & E; completion of the Air Force Operational Test and Evaluation Center OT & E Training Course or the Air Force Institute of Technology System 100 (PDS code2RX) or 229 (PDS code TR9) course; and recommendation by the OTA commander or the DCS.	1C100 1C1X1 1C200 1C2X1 1C300 1C3X1 1C400 1C4X1 1C500 1C5X1 1C600 1C6X1 1NXXX 1SXXX 1T1XX 1T2XX 2A0XX 2A190 2A1X1 2A1X2 2A1X3 2A1X4 2A1X6 2A1X7 2A300 2A390 2A490 2A4X1 2A4X2 2A5XX 2A6XX 2A790 2A7X1 2A7X3 2A7X4 2E000 2E0XX 2E1XX 2E2X1 2E3X1 2E4X1 2E690 2E6X2 2E6X3 2E8XX 2FXXX 2GXXX 2M0XX 2RXXX 2SXXX 3CXXX 3P000 3P0X1 3S2XX 8E000 8S100
126	Acquisition Logistics, Level I	Requires Acquisition Logistics Level I certification.	2AXXX 2E0XX 2E1XX 2E2XX 2E3XX 2E4XX 2E6XX 2E8XX 2F0XX 2G0XX 2M0XX 2P0XX 2R100 2R1X1 2S0XX 2TXXX 2WXXX 3C000 3C090 3C0X1
127	Acquisition Logistics, Level II	Requires Acquisition Logistics Level II certification.	2AX00 2AX5X/7X/9X 2EX00 2E051/71/91 2E190 2E15X/7X 2E251/71/91 2E351/71/91 2E451/71/91 2E60X0 2E65X/7X 2E851/71/91 2F000 2F051/71/91 2G000 2G051/71/91 2M090/00 2M05X/7X 2P000 2P051/71/91 2R100 2R151/71/91 2S090/00 2S05X/7X 2TX00 2TX5X/7X/9X 2WX00 2WX5X/7X/9X 3C090/00 3C051/71
128	Acquisition Logistics Level III	Requires Acquisition Logistics Level III certification.	
		CONTRACTING SEIs	
129	Contracting, Level I	Requires Contracting, Level I certification.	6C0XX
130	Contracting, Level II	Requires Contracting, Level II certification.	6C000 6C051/71/91
131	Contracting, Level III	Requires Contracting, Level III certification.	
132	Communications-Computer Systems, Level I	Requires Communications-Computer Systems Level I certification.	2E000 2E1XX 2E3X1 2E690 2E6X3 2G0XX 2P0XX 3C0XX 3C2XX 3C3XX
133	Communications-Computer	Requires Communications-Computer Systems Level II	2E000 2E190 2E15X/7X

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
	Systems, Level II	certification.	2E251/71 2E351/71/91
134	Communications-Computer Systems, Level III	Requires Communications-Computer Systems Level III certification.	2E000 2E690 2E653/73 2G000 2G051/71/91 2P000 2P051/71/91 3C090/00 3C05X/7X 3C251/71/91 3C351/71/91
150	Contracting-Staff/Supervision	Requires 12 months' experience in management, control, and accomplishment of the unit contracting mission. This includes staff positions and contracting officer positions involving purchase of supplies, services, and construction in support of local operations. Also requires supervisor's recommendation.	6CXXX
151	Warranted Contracting Officer	Requires 12 months' experience in pre-award, award, and post-award contracting, requiring the possession and exercise of a contracting officer's warrant to effect the purchase of supplies, services, and construction in support of local operations. It includes pricing and warranted contracting officer actions relating to contract termination. Also, requires supervisor's recommendation.	
153	Contract Administration	Requires 12 months' experience in pre-award, award, and post-award activities related to the administration of contracts to secure supplies, services, and construction in support of local operations. It includes pre-award surveys, production expediting, and contract status determination and reporting.	
		COMMUNICATIONS-ELECTRONICS SEIs	
161	Mission Support System (MSS) & AFMSS	Requires supervisor's recommendation and either (1) 6 months' experience and completion of one of the following courses: E1ASE30650-020 (PDS2E051 JVW), E3AZR-30650-013 (PDS code JVS), E4AST30650-014 (PDS code JVS), E3AZR30650-036 (PDS code LQO), or E4AST-30650-000 (PDS code LQO); or (2) 12 months' experience.	2E051/71 2E151/71 2E152/72 2E153/73 2E154/74 2E251/71 2E351/71 2E451/71 2E6X3 3C251/71
162	Intratheater Imagery Transmission System (IITS)	Requires supervisor's recommendation and either (1) 6 months' experience and completion of one of the following courses: E3AZR30454-048 (PDS code JT2) or E4AST-30454-095 (PDS code J5X); or (2) 12 months' experience.	2E051/71 2E151/71 2E152/72 2E153/73 2E154/74 2E251/71 2E351/71 2E451/71
167	Satellite Systems Technician	Award criteria is determined by AFTAC. This SEI may be awarded and withdrawn by AFTAC only.	RI 9S100
168	WSR - 88D, Next Generation Weather Radar (NEXRAD)	Requires 12 months' experience, satisfactory completion of course E3AZR30351-014 (PDS code M3B), and supervisor's recommendation.	2E000 2E0X1
169	Tactical Weather Radar - TPS-68S	Requires 6 months' experience and supervisor's recommendation.	
170	Andrews Aeronautical Station	Requires completion of required training, 12 months' experience, and supervisor's recommendation.	3C000 3C1X1
172	Aircraft Control and Warning Radar	This SEI supports the merger of AFSCs 2E0X1, 2E0X2, AND 2E0X3 scheduled for 30 Apr 95. SEI	2E0X1

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
		172 is authorized for award to all personnel possessing AFSC 2E0X2 prior to 30 Apr 95. Use of this SEI expires 30 Apr 97.	
173	Automatic Tracking Radar	This SEI supports the merger of AFSCs 2E0X1, 2E0X2, AND 2E0X3 scheduled for 30 Apr 95. SEI 173 is authorized for award to all personnel possessing AFSC 2E0X3 prior to 30 Apr 95. Use of this SEI expires 30 Apr 97.	2E0X1
174	AN/GPN-22	Requires 12 months' experience and supervisor's recommendation.	2E000 2E0X1
175	TEMPEST Technician	Requires completion of a TEMPEST technician course plus 2 years' additional experience assigned to the AFCOMSEC Center and supervisor's recommendation.	2E000 2E190 2E1X3 2E3X1
176	Theater Battle Management (TBM) Systems Administration and Network Support	Award requires (1) 6 months' experience in uniplexed information and computing (UNIX) operation system, oracle and sybase database administration, structured query language (SQL), and transmission control protocol/internet protocol (TCP/IP) in direct support of systems and network administration for a TBM system; (2) supervisor's recommendation; and (3) commander's certification that member meets criteria. ***NOTE*:** Completion of formal system specific training, e.g. Air Ground Operations School (AGOS) contingency theater automated planning system (CTAPS), AETC global command and control (C2) system (GCCS), or C2 information processing system (C2IPS) system administration courses may be substituted for experience requirement.	3C0X1 3C2X1
177	UNIX System Administrator	Requires 6 months' experience as a UNIX system administrator and supervisor's recommendation.	3C0X1 3C0X2 3C090 3C000 3C2X1
178	Digital European Backbone (DEB)	Requires 6 months' experience and supervisor's recommendation.	2E000 2E190 2E1X1
180	AN/MST-T1	Requires 12 months' experience and supervisor's recommendation.	2E000 2E0X1
182	AN/MPS-T1		
187	National Military Command Center Communications-Electronics Systems Maintenance		2E000 2E190 2E1X3 2E1X4 2E2X1
188	Telephone Switching	These SEIs are to support the merger of AFSCs 2E7X1 and 2E7X3 effective 31 Oct 95. SEI 188 is authorized for award to all personnel possessing AFSC 2E7X1 prior to 31 Oct 95. SEI 189 is authorized for award to all personnel possessing AFSC 2E7X3 prior to 31 Oct 95. Use of these SEIs expires 31 Oct 97.	2E6X3
189	Telephone and Data Circuitry Equipment		
190	Bamboo Tree	Requires supervisor's recommendation and (1) 3 years' experience on Bamboo Tree modified equipment, or (2) formal school plus 1 year experience on Bamboo Tree modified equipment.	2E190 2E1X3
191	AN/TSC-114 Military Airlift Command Airlift	Requires supervisor's recommendation and 6 months' experience in an ALCE or fixed or deployable airlift	2A190 2A1X3 2A4X2 2A6X2 2A490 2E190

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
	Control Element (ALCE) Reaction Communication (MARC) System	control center working with a AN/TSC-114 MARC system.	2E1X1 2E1X3
193	AN/FYQ-8	Requires 6 months' experience and supervisor's recommendation.	2E000
195	Radar Sensor Operations Maintenance Evaluation		1C500 1C5X1 1W0X1 2E000 2E0X1 2E190 2E2X1 3C0X2 3E5X1 3V0X2
199	AN/GMD-5	Requires supervisor's recommendation and either (1) completion of course C3AZR30250-013 (PDS code 8WM) and 6 months' experience, or (2) 12 months' experience.	2E000 2E190 2E1X2
200	Electronic Installation (EI)	Requires completion of courses AFCC 30XXX-000 (PDS code 8XZ), AFCC EI quality assurance evaluation, certification as EI Team Chief, 6 months' experience after certification, and supervisor's recommendation.	2E000 2E051/71 2E091 2E151/71 2E152/72 2E153/73 2E154/74 2E190 2E251/71/91 2E351/71/91 2E651/71 2E652/72 2E690 2E653/73
202	CEM Quality Control	Requires supervisor's recommendation and either (1) completion of course 3AZR00066 (PDS code RFV) and 6 months' experience, or (2) 12 months' experience.	1C6XX 2E000 2E0X1 2E190 2E1X3 2E1X1 2E1X2 2E1X4 2E2X1 2E3X1 2E4X1 2E6XX 3C000 3C2XX
203	AN/GSC-50 AUTODIN Terminal	Requires supervisor's or commander's certification and either (1) completion of course J1ASC30651-001 (PDS code 24F), course J2ASR30651-019 (PDS code 4S8), or course J3AZR30653-034 (PDS code 7AB) and 6 months' of hands-on experience; or (2) 12 months' of hands-on experience.	2E331/51/71
204	Phase IV or Tactical Shelter Systems (TSS)	Requires completion of formal training on Phase IV or TSS computer systems, 12 months' experience, and supervisor's certification.	2E251/71
205	Strategic Automated Command and Control System (SACCS)	Requires 6 months' experience and supervisor's recommendation.	2E231C/51C 2E271/91
206	Mobile Satellite Communication Systems	Requires 6 months' experience, supervisor's recommendation and completion of formal training. Applicable course by PDS code are: <u>AFSC</u> <u>PDS CODE</u> 2E2X1 65R, 5HW, 75Q 2E4X1 5HW, 3E7, 75Q, 76E Personnel must complete all courses applicable to their respective AFSC before award of this SEI.	2E251/71/91 2E451/71/91
207	AN/ARC-96	Requires 6 months' experience and supervisor's recommendation.	1A3XX
208	Global Command and Control Systems (GCCS)	Requires completion of one of the following courses: E30AR33S0 007 (PDS 5F4), E30AR33S0 009 Z (PDS	3C0X1 3C2X1

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
	Systems Administration and Database Support	6WB), E30AR33S0 000 (PDS 024), or E30AR33S0 006 (PDS 5EN) and 6 months' experience, or 12 months' experience; plus supervisor's recommendation.	
209	Imagery Systems Maintenance	Requires prior qualification and possession of AFSC 2E5X1 prior to 30 April 1998.	2E1X4
210	AN/FPQ-21	Requires supervisor's recommendation and either (1) completion of course C5AZG30270-000 (PDS code 5XR) and 6 months' experience; or (2) 12 months' experience.	2E000 2E0X1 2E190 2E1X2
219	AN/FPS-77	Requires supervisor's recommendation and either (1) 6 months' experience plus completion of a AN/FPS-77 course provided by a central repair activity; or (2) 12 months' experience.	2E000 2E0X1 2E190 2E1X2
221	AN/FRC-117	Requires 6 months' experience and supervisor's recommendation.	2E000 2E190 2E1X3
225	Range Operations	Requires 12 months' experience in test and evaluation and recommendation by immediate supervisor.	1C551/71/91/00 1C551D/71D
233	Defense Message System	Award requires (1) completion of course E3AZR-3C051-024 (PDS 4IS), or completion of all of the following Lockheed Martin contracted courses: T00003X, T00005, T00007, and T00009X or Lockheed Martin instructor versions of these courses (T00004X, T00006, T00008, and T000010X respectively), and (2) 6 months hands-on system administration in direct support of DMS or (3) a minimum of 18 months hands-on experience; plus supervisor's and commander's recommendation.	3C0X1 3C2X1
239	Combat Crew Communications	Identifies personnel with experience and training in providing communications support to combat aircrews. Requires 12 months' experience with training in combat crew communications, including participation in combat mission folder preparation.	3C000 3C1X1
242	AN/TCC-30	Requires 12 months' experience and supervisor's recommendation.	2E000
243	Commercial Communications	Requires supervisor's recommendation and either (1) 6 months' experience or (2) training at the AFCC Commercial Communications School (CCS) and 3 months' experience.	2E000 2E190 2E1X1 2E6X0 2E6X3 3C000 3C2XX
244	AN/TPN-19	Requires 12 months' experience and supervisor's recommendation.	2E000 2E0X1
246	AN/TPS-43		
248	AN/TSQ-91		2E000 2E2X1
252	"Strawhat" Communications System		2E000 2E3X1
253	TSEC/KW-37		
254	TSEC/KY-9		
256	Airborne Command Post	Requires 12 months' experience and supervisor's recommendation.	1A3XX
261	Automatic Digital, Net, Mode V Control Unit	Requires 6 months' experience and supervisor's recommendation.	2E000 2E3X1
262	AUTODIN Switching Center	Requires 12 months' experience and supervisor's recommendation.	2E000 2E190 2E1X1 2E2X1 2E3X1
263	Automatic Secure Voice System		2E000 2E3X1

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
269	COMSEC Accounting	Requires 6 months' experience and supervisor's recommendation.	1A3XX 3C0XX
270	ECCM/ECM	Requires completion of an AETC or equivalent course in electronic countermeasures/counter-countermeasures plus 6 months' experience and supervisor's recommendation.	1A4XX 1C551/71 1C551D/71D
272	Electronic Telephone Switching Systems	Requires 6 months' experience and supervisor's recommendation.	2E000 2E3X1
274	AN/FTC-31 Switch	Requires completion of course E5AZA36252-000 (PDS code KCJ), 12 months' experience, and supervisor's recommendation.	2E000 2E3X1
276	Defense Satellite Communications System (DSCS) Ground Terminals	Requires 18 months' experience on any of the following systems: AN/TSC-54, AN/MSC-46, AN/FSC-78, AN/GSC-49, or AN/GSC-52, plus supervisor's recommendation.	2E000 2E190 2E1X1
277	Tactical Air Control Systems/Combat Control Team	Requires completion of Equipment Proficiency Certification and completion of the unit mobility school, plus supervisor's recommendation.	Any AFSC
282	Technical Evaluation Program (TEP) (SCOPE/CREEK)/ Special Maintenance Team	Requires 12 months' experience and supervisor's recommendation.	2E000 2E0X1 2E190 2E1X1 2E1X2 2E1X3 2E3X1
283	Optical Solar Telescope (AN/FMQ-7)	Requires 12 months' experience and supervisor's recommendation.	2A000 2A190 2A1X1 2E000 2E190 2E1X2
284	Solar Radio Telescope (AN/FRR-95)		2E000 2E190 2E1X2
285	RVR-400	Requires 6 months' experience and supervisor's recommendation	
286	Global High Frequency (HF) Systems	Requires supervisor's recommendation and either (1) completion of formal training plus 6 months' experience with completion of proficiency training; or (2) 12 months' experience with completion of proficiency training.	2E000 2E190 2E1X3
287	Base Installation Security Systems (BISS)	Requires supervisor's recommendation and either (1) formal training plus 6 months' additional experience; or (2) 9 months' experience.	2E000 2E190 2E1X4
290	Air Weather Service Defense Meteorological Satellite Program (DMSP) Equipment - MARK IV	Requires 12 months' experience and supervisor's recommendation.	2E000 2E4X1
291	Missile Communications System Evaluator/Instructor	Requires 12 months' experience, completion of task qualifications on respective missile communications system, completion of course Y140005, Information Systems Evaluator or Instructor Course (PDS code 77C), and supervisor's recommendation.	2E000 2E151/71 2E153/73 2E190 2E231C/51C/71/91 2E652/72
292	Satellite Ground Communications	Requires supervisor's recommendation and either (1) completion of a formal course in the AN/TSC-94/94A or AN/TSC-100/100A plus 6 months' experience, or (2) 12 months' experience.	1C6XX 2E000 2E190 2E1X1 2E1X3 2E4X1
294	Air Weather Service Defense Meteorological	Requires completion of a DMSP technical training course plus 4 months' additional experience and	2A000 2A190 2A1X1 2E000 2E4X1

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
	Satellite Program (DMSP) Equipment - MARK IIA/MARK III	supervisor's recommendation.	
296	CRITICOM Multiplex System (Project LEMONADE)	Requires supervisor's recommendation and either (1) completion of course E3AZR30651-033 (PDS code 5LW) or course E3AZR30651-026 (PDS code UUJ) and 6 months' experience; or (2) 12 months' experience.	2E000 2E3X1
297	Personnel Control Team (PCT) Member	Requires Military Personnel Flight Chief recommendation and (1) completion of all mandatory task performance requirements in the Personnel Support for Contingency Operations (PERSCO) Air For Job Qualification Standard (JQS); (2) completion of all mandatory PERSCO Manpower and Personnel Base level (MANPER-B) operator task performance requirements in the MANPER-B JQS; and (3) 6 months' PERSCO experience after completing task qualification training or be deployed for at least 30 days as a PERSCO team member for a Joint Chiefs of Staff, major command, or exercise deployment operation. ***NOTE***: All JQS qualification training must be completed within 12 months' of the date assigned to PERSCO according to AFI 10-215.	3S051/71
299	Manpower and Personnel Base Level (MANPER-B) Operator	Requires Military Personnel Flight Chief recommendation and (1) successful completion of USAF MANPER-B Systems Course, E3AZR3S071-011/ E4AST3S071-009 (PDS code WIM) or an AFPC approved substitute course; and (2) completion of all mandatory task performance requirements in the MANPER-B Air Force Job Qualification Standard. ***NOTE*:** All training must be completed within 12 months of being assigned to Personnel Readiness function or personnel support for contingency operations (PERSCO) MANPER-B position.	3S031/51/71 3S032/52/72
MISCELLANEOUS SEIs (continued) -- See SEIs 002-100			
300	Technical Order Acquisition Verification Management	Requires 12 months' experience and supervisor's recommendation. Applicable to personnel who have been assigned to AF Systems Command or Air Force Logistics Command technical order acquisition/verification positions.	1AXXX 2AXXX 2E0XX 2E1XX 2E2XX 2E3XX 2E4XX 2E8XX 2M0XX 2PXXX 2WXXX 3E8XX 4A2XX
301	Air National Guard Readiness Center (ANGRC)	Requires completion of the ANGRC Contingency Support Staff Training Course.	Any AFSC
302	ICBM Technical Engineering Personnel	Requires supervisor's recommendation, 12 months' technical engineering experience at a SAC ICBM unit,	2M0XX

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
		and completion of one of the following courses: C3AZR41170A-000(PDS code UT6), C3AZR-41170A-001 (PDS code PYT), C3AZR41170A-002 (PDS code U8Q), C3AZR-31670G-011 (PDS code UT6), C3AZR31670G-006 (PDS code PYT), or C3AZR31670G-010 (PDS code U8Q).	
303	Retention Office Manager (ROM)	Requires completion of Retention Office Management (ROM) course YPMEC RT (PDS 3QG).	8R000
304	Military News Editor	Requires completion of Newspaper Editor Course, award of 5 level AFSC, and 6 months' experience as editor of a base newspaper; or 12 months' experience as a base newspaper editor and award of 5 level AFSC. Includes editors of magazines produced at base level or higher who are experienced in overall production, planning, and supervision of magazine publications and possess the same schooling or experience.	3N000 3N090 3N0X1
305	NCO Preparatory Course Instructor	Requires completion of the NCO Preparatory Course Instructor's course, MLMDC 001 (PDS code UOP).	Any AFSC
306	Special Operations Force	Requires 6 months' experience in a Special Operations unit tasked with a counterinsurgency, psychological, or unconventional warfare mission, as defined in AFI 10-1301, *Aerospace Doctrine.*	
308	Base Engine Manager	Requires completion of course C3AZR39270-001 (PDS code 3QV) and 6 months' experience in engine manager duties; or 12 months' experience in engine manager duties.	2A300 2A390 2A3X3 2A590 2A5X1 2A600 2A6X1 2R1XX 2S000 2S090 2S0X1
311	Military Working Dog (MWD) Handler	Requires prior qualification in and possession of AFSC 3P051A, or 3P072A (prior to 31 Oct 97). Award SEI to AFSC 3P0X1 when personnel upgrade from AFSC 3P051A to 3P071.	3P000 3P071/91
312	Combat Arms	Requires prior qualification in and possession of AFSC 3P051B, or, 3P171 (prior to 31 Oct 97). Award SEI to AFSC 3P0X1 when personnel upgrade from AFSC 3P051B to 3P071.	
313	Information Management (IM) Systems	Requires 12 months' experience in microcomputer or shared systems, supervisor's recommendation, and approval by the Chief of Base IM or the major command or separate operating agency Director of IM. Experience must include receiving, assembling, configuring, maintaining, and troubleshooting individual or unit software or hardware.	3A051/71/91/00
315	Central NOTAM Facility (CNF)	Requires 12 months' experience and certification by a supervisor.	1C000 1C0X1
320	PMEL Production Scheduler	Requires 6 months' experience.	2R1XX
321	Security Police Investigator	Requires completion of either L5AZA81172-000, Military Police Investigations (PDS code RZ4), or	3P0X1

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
		50BO8200-000, Special Investigator (PDS code 0D8); or one of the following MAJCOM conducted Military Police Investigator (MPI) courses (completed on or after 1 Jul 85): MP-94, 830-85V, or 830-ASI-V5. Also, requires 12 months' experience as a full time security police investigator and recommendation of the base Chief of SP.	
322	Information Security Experience	Requires either 1) completion of course L50ZD3193-002 (PDS code SNV) or 2) completion of course L50ZD31P3-007 (PDS code 84B) plus completion of the following DoD Security Institute correspondence courses: DS-1103, DS2121, DS3121, DS33122, DS4121, and DS6100; 12 months experience; and recommendation by the Chief of Security Forces.	3P0XX
323	Electronic Security Systems	Requires completion of one of the following courses: L3AZR81150-008 (PDS code ZMV); L4AST81150-007 (PDS code ZMV); L3AZR81150-012 (PDS code 4FR); L4AST81150-012 (PDS code 4FR); L4AST-81150-011 (PDS code 4FS); or completion of both L4AST81150-001 (PDS code T4A) and L4AST-81150-005 (PDS code YO8), L4AST-81150-008 (PDS code 2K6), L5AST81150-013 (PDS code 4FT), or L6AZS81150-000 (PDS code 4FR).	3P0XX
325	Medical Readiness	Requires minimum grade of E-4 who has attained NCO status; completion of the Medical Readiness Planning crse, J3OZR9000-005 (PDS code M15), or Battlefield Medical Operations Planning (BMOP) crse B3OZY-9300-003 (PDS code RZM); and 12 months' experience. Approval authority for award of this SEI is MAJCOM or higher. Local medical function will forward the SEI RIP to the MAJCOM for final award certification. ***NOTE***: Individuals who have previously completed the BMOP course and have been in a readiness position for more than one year, are exempt from this requirement.	4XX5X/7X/9X 4XX00
326	Red Horse Experience	Requires 6 months' experience in Red Horse assignment and commander's recommendation.	2A600 2A7X1 2S000 2S0X1 3A031/51/71 3E090 3E000 3E0X1 3E1X1 3E2X1 3E3X1 3E490 3E4X1 3E4X3 3E5X1 3E6X1 3M071 3S2X1 4F071 4N071
328	Air Base Survivability (ABS)	Requires 12 months' experience or completion of a formal ABS course.	3E900 3E971/91
330	Foreign Internal Defense (FID)	Requires commander's recommendation and either 1) completion of the Joint Aviation FID course, AFSOC	1A1X1 1A2X1 1C2X1 1T1X1

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
		158002 (PDS code WA7), and a minimum of 6 months' experience in a civic action or FID operations unit, or in a staff position involving direct support of civic action or FID operations; or 2) a minimum of 12 months' experience in a civic action or FID operations unit.	2A1X2 2A1X3 2A5X1 2A5X2 2A6X2 2A6X5 2E1X3 2G0X1 2S0X1 2W1X1 3P0X1 3S0X1
332	Photojournalist	Requires completion of an accredited photojournalism school, 12 months' experience in an authorized UMD position, supervisor's recommendation endorsed by MAJCOM/SOA/DRU Visual Information functional manager, and final approval of HQ USAF/SCV.	3V000 3V090 3V0X2
333	Motion Media Journalist	Requires successful completion of course G5AZR-23173-000 (PDS Code WJT) and supervisor's and commander's recommendation.	3V090 3V053/73
335	Logistics Composite Model (LCOM)	Requires 12 months' experience.	2AXXX 2PXXX 2RXXX 3UXXX
336	Teleproduction Facility Experience	Requires completion of course E5AZD2E154-011 (PDS code N9A), 12 months' experience, and supervisor's recommendation.	2E000 2E190 2E1X4
339	Tactical Information Processing and Interpretation System	Requires (1) 6 months' experience with supervisor's certification for AFSCs/CEMs 1N0X1, 1N090, and 1N1X1; (2) supervisor's recommendation and either (a) completion of course G3AZR30554-008 (PDS code TJZ); or (b) 12 months' experience for CEM 2E000.	1N000 1N090 1N0X1 1N1XX 2E000
348	Safety Education Program	Requires 12 months' experience in operating multimedia equipment for safety education programs at either base or division (mobile systems).	1S0XX
350	Airspace Management	Requires (1) 6 months' consecutive experience in an airspace management position plus (2) completion of the USAF Airspace Management Course.	1C171/91/00 1C551D/71D 1C571/91/00
354	Repair and Reclamation Shop	Requires 12 months' experience.	2A300 2A3X3 2A390 2A590 2A5X1 2A5X2
355	HARVEST BARE Equipment Qualified	Requires completion of an established training course for any of the authorized AFSCs and supervisor's certification.	3E0XX 3E1X1 3E2X1 3E3X1 3E4XX 3MXXX
356	Hazardous Materials Trainer	Requires successful completion of course X3AZR-57150-012 (PDS Code WCX), 6 months' experience, and supervisor's recommendation.	3E7XX
359	Stock Fund Financial Management	Requires completion of a formal course in Stock Fund Management and 6 months' experience performing or supervising the supply financial management function at base level, or as stock fund/O&M manager at numbered Air Force level or higher.	2SXXX
360	Automated Intelligence Systems	Requires either (1) 12 months' direct operational experience with an intelligence data handling system (IDHS), or (2) formal computer training and 6 months' operational experience with an IDHS.	1NXXX
361	Terminal Instrument Procedures (TERPS)	Requires (1) completion of course E3OZR1661-001 (PDS code D9K or QKL); (2) successful completion of	1C171/91/00

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
		TERPS portion of AFJQS 1C1X1; (3) 12 months' experience as primary TERPS specialist (alternate specialist will be evaluated on a case-by-case basis by MAJCOM authority), and (4) recommendation by the unit commander or designated representative.	
362	Air Traffic Control Radar Approach Control Watch Supervisor/Senior Controller	Requires qualification as a Watch Supervisor or Senior Controller.	1C1XX
363	Air Traffic Control Radar Center	Requires certification of initial facility rating and recommendation by immediate supervisor and commander.	1C1XX
364	Air Traffic Control Radar Approach Control	Requires certification in approach, approach assistant, and arrival, and recommendation by immediate supervisor and commander.	
365	Radar Final Control (RFC)	Requires (1) prior qualification in and possession of SEI 053, 056, or 364; (2) successful completion of RFC portion of AFJQS 1C1X1; (3) precision approach radar position certification, and (4) recommendation by unit commander or designated representative.	1C1X1 1C100
366	Materials Testing (Concrete, Asphalt, and Soils)	Requires a minimum residency of 6 months' at the AFESC or USAFA laboratory and recommendation of the Director of Laboratories, AFESC, or the OIC of the Soils Laboratory, USAFA, and concurrence of the Commander, AFESC, or Head, DFCEM, USAFA, respectively.	3E000 3E5X1
369	Aero Bulk Fuels Delivery Systems	Requires completion of (1) physiological training per AFI 11-403, *Aerospace Physiological Training Program* (2) TAC, USAFE, or PACAF Aero Bulk Fuels Delivery System course, and (3) a recommendation by the Fuels Management Officer.	2FXXX
372	Additional Duty Social Actions NCO	Requires experience in managing social actions programs on an additional duty basis in a geographically separated unit for 8 months, completion of additional duty social actions training, and commander's and MAJCOM approval.	Any AFSC
373	Precision Photographic Reconnaissance Systems Processing Equipment Maintenance	Requires 12 months' experience.	2E000 2E190 2E1X4
374	Precision Photographic Audiovisual Systems Processing Equipment Maintenance		
375	Explosive Safety Technician	Requires completion of an appropriate formal safety training course plus 6 months' experience in an explosive safety position, and supervisor's recommendation.	2W0XX 2W1XX
377	"Combat Talon" Qualified	Requires 12 months' experience with Combat Talon operations and recommendation of commander.	2A1X2 2A1X3 2A190 2A1X7 2A4XX 2A5X1B

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
			2A551J 2A571 2A590
378	Morse Code Qualified	Requires transcription of 12 groups per minute and supervisor's recommendation.	1A3XX 3C000 3C1X1
379	Certified Welder	Requires certification of qualification to perform welding tasks on aircraft and missiles.	2A600 2A790 2A7X1
385	Instructional Systems Development (ISD) Manager	Requires 12 months' experience in ISD work and completion of ATC course 3AZR75133-000, Instructional Systems Designer (PDS code U4X), or equiv-alent. A Master's degree in education may be considered as one acceptable substitute for ISD course. MAJCOM ISD office recommendation is required.	Any AFSC except 3S2XX
386	Instructional Materials Writer/Manager	Requires 6 months' experience in preparation or revision of nonresident training materials and completion of the Technical Writer Nonresident Training Materials course 3AIR75200-015 (PDS code 5AT).	Any AFSC
387	Air Transportable Hydrant Refueling Systems (ATHRS)	Requires completion of (1) AAC, USAFE, or PACAF Air Transportable Hydrant Refueling System course or 30 days hands-on experience and (2) recommendation by the Fuels Management Officer.	2FXXX
389	Acquisition Security	Requires completion of a basic systems acquisition course, Air Force Materiel Command course MWE-OPS0002300SU, and 12 months' experience in sys-tems security engineering management, systems se-curity management, or security programming duties.	3P000 3P051/71 3P052* 3P072* 3P090
393	Unit Training	Requires completion of respective qualification training package (QTP), duty position core tasks, and recommendation by the unit commander. ***NOTE***: SEIs 393 through 396 are established to assist in the transition training plan for the merger of AFSCs 751X0 and 751X1 effective 31 Oct 93. These SEIs are applicable only to MSgts and below; and are not authorized for use on manpower documents. These SEIs will be deleted from the airman classification system not later than 31 Oct 97.	3S231/51/71
394	Maintenance Training		
395	Base Training		
396	Education Services		
397	Barrier Arresting Kit 9	Award of each of these SEIs requires completion of course J3A2R3E053-004 (PDS code 3SX) or J4AZR-3E052-003. (PDS code GZO), task certification on the specific aircraft arresting barrier, and com-mander's recommendation.	3E000 3E090 3E0X2
398	Barrier Arresting Kit 12		
399	Barrier Arresting Kit 13		
400	Barrier Arresting Kit 14		
401	Barrier Arresting Kit 15		
402	Force Management	Award this SEI to all personnel who converted from AFSC 3E6X1 to AFSC 3E9X1 effective 31 Oct 95. This SEI is to be used to support the realignment of readiness management duties from 3E6X1 to 3E9X1. It will be used during the initial transition period to track and identify the 3E6X1 personnel that converted to 3E9X1, and will expire 31 Oct 97.	3E951/71/91
405	Target Intelligence	This SEI is to support the merger of AFSCs 1N0X1 and 1N0X2 effective 30 Apr 96. SEI 405 is authorized	1N0X1

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
		for award to all personnel possessing AFSC 1N0X2 prior to 30 Apr 96. Use of this SEI expires 30 Apr 98.	
406	Targeting	Award of this SEI requires completion of course X30ZR14N3B-000, Combat Targeting (PDS code 227); 12 months' experience in a targeting position; and supervisor's recommendation.	1N000 1N051/71/91
429	Synthetic Aperture Radar (SAR)/ Sidelooking Airborne Radar (SLAR)	Requires completion of the SAR course developed by the Defense Sensor Interpretation and Applications Training Program or 18 months' experience in the exploration of strategic or tactical radar imagery, SAR, or SLAR.	1N1XX
430	Weapons Accident Prevention Technician	Requires completion of a formal weapons safety management course, or 6 months' experience in a weapons safety position at the operational level.	1S0XX
		AREA EXPERIENCE SEIs	
445	Latin America	Requires 12 months' experience in an AFSC requiring language proficiency and adaptability to the environment and people of a country within a specified geographical area. Requires experience during assignment to such activities as military missions, assistance advisory groups, attaché posts, treaty organizations, and counterinsurgency forces. Also, requires supervisor's recommendation.	2E000 2E190 2E1X3 3C000 3C1XX
		MEDICAL SEIs	
475	Substance Abuse Certification	Requires certification as a substance abuse counselor according to AFI 36-2701, *Social Actions Program.* HQ AETC/SGCPM is sole authority for approving award or withdrawal of this SEI.	4C051/71/91/00
476	Medical Illustration	Requires recommendation of supervisor and submission of a portfolio containing medical illustrations as prescribed by HQ AFMOA/SGOC.	3V000 3V090 3V0X1
477	Medical Photography		3V000 3V090 3V0X2
478	Computed Tomography	Must be registry eligible or certified by the American Registry of Radiologic Technologists; have completed the manufacturer's training course; have 6 months' experience in an established computed tomography unit; and be recommended by the Chairman Department of Radiology.	4R000 4R051/71/90
479	Special Procedures	Must be registry eligible or certified by the American Registry of Radiologic Technologists; have 6 months' experience in a major angiographic facility and have participated in a minimum of 200 angiographic procedures; and be recommended by the Chairman, Department of Radiology.	4R000 4R051/71/90
486	Dialysis Medical Technician (DMT)	Requires completion of DMT OJT, 12 months' active DMT clinical experience, and supervisor's recommendation.	4N0XX
487	Critical Care Technician	Requires 12 months' experience in critical care (ICU/ CCU), Special Care Unit (SCU) or Neonatal Intensive	4FXXX 4H000 4H091 4N000

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
		Care Unit (NICU) related duties and supervisor's recommendation.	4N031/51/71 4N090
489	Medical Development NCO (MDNCO)	Requires completion of MDNCOs training (MDO course, MDNCO exportable course, or MDO course approved medical unit local training), 12 months' experience, and supervisor's recommendation.	4N0XX
490	Hyperbaric Medical Technician (HMT)	Requires completion of the HMT course, 12 months' clincal hyperbaric experience, and supervisor's recommendation.	4F0XX 4M0XX 4N0XX
491	Cardiothoracic Surgical Technician	Requires 9 months' experience in a Medical Treatment Facility where open heart procedures are completed; 1st scrub on a minimum of 25 procedures involving use of a heart lung bypass machine; and be recommended by the Chairman, Department of Cardiothoracic Surgery.	4N151/71/91
492	Radiation Health Technician	Requires successful completion of the Industrial Radiological Hazards course and Radiation Health Technician course, and 12 months' experience in radiation health duties plus supervisor's recommendation.	4BXXX
493	Physiological Support	Requires 6 months' experience in TR-1, U-2, or SR-71 high altitude physiological support operations. Designation must be approved by the MAJCOM surgeon.	1T1XX 4MXXX
494	Aeromedical Evacuation	Requires 12 months' experience in an aeromedical evacuation unit and supervisor's recommendation.	4FXXX 4N0XX
495	Vascular Surgical Technician	Requires 6 month's experience at a Medical Treatment Facility with a recognized vascular surgery service; 1st scrub on a minimum of 50 major vascular procedures; and be recommended by Chief, Vascular Service.	4N151/71/91
496	Independent Duty Medical Technician	Requires completion of Medical Service Technician Independent Duty course and initial IDMT certification at the host medical treatment facility.	4FXXX 4N0XX
497	Ophthalmology Technician	Requires 9 months' experience in a Medical Treatment Facility with Department of Ophthalmology; 1st scrub on 50 procedures, 25 of which must have been cataract and 10 must have been plastic or trauma procedures; and be recommended by Chairman, Department of Ophthalmology.	4N151/71/91
498	Neurosurgery	Requires 9 months' experience in a Military Treatment Facility with Department of Neurosurgery; 1st scrub on 15 procedures where a cranial flap is turned; a minimum of 20 spinal cases; and be recommended by Chairman, Department of Neurosurgery.	4N151/71/91
499	Mental Health	This SEI is to support the merger of AFSCs 3S1X1B and 4C0X1 effective 31 Oct 96. Identifies all 4C0X1 personnel who did not attend the combined mental health/substance abuse 3 level AFSC awarding course 4C0X1 personnel who attended the 3 level course 1 Oct 95 or later, should not be awarded this SEI. Use of this SEI expired 31 Oct 98.	4C0X1
500	Substance Abuse	This SEI is to support the merger of AFSCs 3S1X1B and 4C0X1 effective 31 Oct 96. SEI 500 is authorized for	

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
		award to all personnel possessing AFSC 3S1X1B prior to 1 Nov 96. Use of this SEI expires 31 Oct 98.	
		AIRCRAFT IDENTITY SEIs	
501	A-10	Requires 12 months' experience and supervisor's recommendation. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months' experience and supervisor's recommendation.	2A000 2A090 2A0X1B 2A190 2A1X2 2A1X3 2A1X7 2A300 2A333E 2A3X3J 2A390 2A4XX 2A5X1* 2A600 2A690 2A691 2A6X1A/E 2A6X3 2A6X4 2A6X6 2M000 2M090 2M0X1* 2W1XX
503	KC-10	Requires 12 months' experience and supervisor's recommendation. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months' experience and supervisor's recommendation.	1A0XX 1A100 1A190 1A1X1C 2A000 2A190 2A1X2 2A1X3 2A300 2A4XX 2A5X1 2A590 2A600 2A690 2A691 2A6X1A/C 2A6X2 2A6X4 2A6X5 2A6X6 2A790 2A7X3
504	T/UH-1D/F/N		1A1X0/X1B 1T2XX 2A000 2A190 2A1X2 2A1X3 2A300 2A390 2A4XX 2A590 2A5X1 2A5X2 2A600 2A690 2A691 2A6X1B 2A6X4 2A6X5 2A6X6
505	Any H-60	Requires 12 months' experience and supervisor's recommendation. ***NOTE***: For individuals serving in 12 month short tour areas, one of the following designation criteria applies: (1) For AFSCs 1A1X1B, 2W100, 2W131Z, and 2W151/71/91, 10 months' experience and supervisor's recommendation. (2) For all other authorized AFSCs, 6 months' experience and supervisors recommendation.	1A1XX 2A000 2A190 2A1X1 2A1X2 2A1X3 2A1X7 2A300 2A4XX 2A590 2A5X1 2A5X2 2A600 2A690 2A691 2A6X1B 2A6X4 2A6X6 2W100 2W131Z 2W1X1*
506	F-117	Requires 12 months' experience and supervisor's recommendation. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months' experience and supervisor's recommendation.	2A000 2A090 2A0X1B 2A190 2A1X1 2A300 2A390 2A3X2 2A3X3B 2A600 2A690 2A6X1A/E 2A6X2 2A6X3 2A6X4 2A6X5 2A6X6 2A790 2A7X1 2A7X2 2A7X3 2W1XX
510	U-2	Requires 12 months' experience and supervisor's recommendation.	1T1XX 2A000 2A190 2A1X1 2A1X2 2A1X3

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
		NOTE: For individuals serving in 12 month short tour areas, designation criteria are 10 months' experience and supervisor's recommendation.	2A1X7 2A300 2A333H 2A4XX 2A590 2A5X1 2A600 2A690 2A691 2A6X1A/E 2A6X3 2A6X4 2A6X5 2A6X6 4MXXX
511	Any H-3		1A100 1A190 1A1X1B 1T2XX 2A000 2A190 2A1X1 2A1X2 2A1X3 2A1X7 2A300 2A4XX 2A590 2A5X1 2A5X2 2A600 2A690 2A691 2A6X1B 2A6X4 2A6X5 2A6X6 2W100 2W131Z 2W1X1*
512	Any H-53	Requires 12 months' experience and supervisor's recommendation. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months' experience and supervisor's recommendation	1A100 1A190 1A1X1B 1T2XX 2A190 2A1X1 2A1X2 2A1X3 2A1X7 2A4XX 2A590 2A5X2 2A691 2A6X1B 2W100 2W131Z 2W1X1* 2N1X1*
513	AC-130H/U, Spectre Gunship	Requires 12 months' experience and commander's certification. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months' experience and commander's certification. Designation criteria for the aircrew AFSCs (1AXXX and A2W-151/71/91) are completion of formal training course (1) AC-130AG (PDS code BDZ), (2) AC-130FE (PDS code BEL), or (3) AC-130I0 (PDS code BEM), 24 months' experience, supervisor's recommendation and commander's certification.	1A100 1A190 1A1X1C 1A2XX 2A190 2A1X1 2A1X2 2A1X3 2A1X7 2A4XX 2A590 2A5X1 2A690 2A6X5 2W100 2W131Z 2W1X1* 8S100
514	HC-130P/MC-130P	Requires completion of formal training courses MC130-PCSONVG (PDS code N9W) and either (1) MC130-PSOIQ/MQ (PDS code XAE), (2) MC130-PFEMQ (PDS code XAC), or (3) MC130PLMMQ (PDS code XAD); 24 months' experience; supervisor's recommendation; and commander's certification.	1A100 1A190 1A1X1C 1A2XX 1A3XX
515	MC-130E	Requires completion of formal training course (1) MC130ECS (PDS code XVN), (2) MC130EFE (PDS code XVL), or (3) MC130ELM (PDS code XVM); 18 months' experience; supervisor's recommendation; and commander's certification. ***NOTE***: Completion of formal training may be accomplished in unit when approved by the major command functional manager.	1A100 1A190 1A1X1C 1A2XX 1A3XX
516	MC-130H	Requires completion of formal training course MC130-HFE (PDS code 4YC); 12 months' experience;	1A100 1A190 1A1X1C 1A2XX

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
		supervisor recommendation, and CC's certification. ***NOTE***: For individuals serving in 12 month short tour areas, experience requirement is reduced to 10 months'.	
521	F-4G (Wild Weasel)	Requires 12 months' experience and supervisor's recommendation. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months' experience and supervisor's recommendation.	2A000 2A190 2A1X2 2A1X3 2A1X7 2A300 2A4X1
522	F/RF-4		2A000 2A190 2A1X1 2A1X2 2A1X3 2A1X7 2A300 2A333D 2A390 2A3X3J 2A4XX 2A600 2A690 2A691 2A6X1A/C 2A6X3 2A6X4 2A6X5 2A6X6 2E000 2E190 2E1X4 2M000 2M090 2M0X1* 2W1XX
526	EF-111A	Requires supervisor's recommendation and either (1) formal training plus 8 months' experience; or (2) 12 months' experience. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months' experience and supervisor's recommendation.	2A000 2A090 2A300 2A390
527	F-111A/E	Requires 12 months' experience and supervisor's recommendation. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months' experience and supervisor's recommendation.	2A000 2A090 2A300 2A390 2M000 2M090 2M0X1* 2W1XX
528	F-111D		
530	F/EF-111 (Any Model)		2A300 2A390 2A353J/73J 2A600 2A690 2A691 2A6X1A/D 2A6X3 2A6X4 2A6X5 2A6X6
532	T-1/T-37/T-38		2A000 2A190 2A1X2 2A1X3 2A300 2A390 2A3X3J 2A4XX 2A600 2A690 2A691 2A6X1A/C 2X6X3 2A6X4 2A6X5 2A6X6
533	F-15		2A000 2A090 2A300 2A390 2A600 2A690 2A691 2A6X1A/D 2A6X3 2A6X4 2A6X5 2A6X6 2M090 2M0X1* 2W1X1
535	F-16		2A000 2A090 2A0X1B 2A190 2A1X1 2A300 2A390 2A3X3B 2A600 2A690 2A691 2A6X1A/D/E 2A6X3 2A6X4 2A6X5 2A6X6 2M090 2M0X1* 2W1XX

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
545	C-5	Requires 12 months' experience and supervisor's recommendation. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months' experience and supervisor's recommendation.	1A100 1A190 1A1X1C 1A200 1A2X1 2A000 2A190 2A1X2 2A1X3 2A300 2A4X1 2A4X2 2A551J 2A571 2A590 2A5X1C 2A600 2A690 2A691 2A6X1A/C 2A6X3 2X6X4 2A6X5 2A6X6
546	C-17	***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months' experience and supervisor's recommendation.	1A200 1A2X1 2A000 2A190 2A1X2 2A1X3 2A1X7 2A300 2A4XX 2A590 2A5X1 2A600 2A690 2A691 2A6X1A/C 2A6X4 2A6X5 2A6X6
547	C-12		2A1X2 2A1X3 2A300 2A4X1 2A4X2 2A551J 2A571 2A590 2A5X1A 2A600 2A690 2A691 2A6X1B 2A6X3 2A6X4 2A6X5 2A6X6
550	C-141		1A100 1A190 1A1X1C 1A2XX 2A000 2A190 2A1X2 2A1X3 2A300 2A4XX 2A551J 2A571 2A590 2A5X1A 2A600 2A690 2A691 2A6X1A/C 2A6X3 2A6X4 2A6X5 2A6X6
569	E-3A/B (AWACS)	Requires 12 months' experience and supervisor's recommendation. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months' experience and supervisor's recommendation.	1A100 1A190 1A1X1C 1A3XX 1A4XX 1A5XX 1C5XX 2A000 2A190 2A1X2 2A1X3 2A300 2A4XX 2A551L 2A571 2A590 2A5X1G 2A600 2A690 2A691 2A6X1A/C 2A6X2 2A6X4 2A6X5 2A6X6 2E000 2E231B/51B/71/91
570	E-8, Joint Stars	Requires 12 months' experience and supervisor's recommendation.	1A1XX 1A3XX 1A4XX 1A5XX
572	Any C-130	Requires 12 months' experience and supervisor's recommendation. ***NOTE:*** For individuals serving in 12 month short tour areas, designation criteria are 10 months' experience and supervisor's recommendation.	1A100 1A190 1A1X1C 1A2XX 1A3X1 1A500 1A591 1T2XX 2A000 2A190 2A1X1 2A1X2 2A1X3 2A1X7 2A300 2A4XX 2A551J 2A571 2A590 2A5X1B 2A600 2A690 2A691 2A6X1B 2A6X4 2A6X5 2A6X6 2M090 2M0X1 2M0X2

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes		
573	Compass Call	Requires 12 months' experience and supervisor's recommendation.	1N3XX 2A190 2A1X7 2A4XX 2A6X6	1N5XX 2A1X2 2A300 2A600 2A690	2A000 2A1X3 2A390
574	EC-135C/J (ABNCP)	Requires 12 months' experience and supervisor's recommendation.	2A4X3		
580	Any C-135/Boeing 707 Modification	Requires 12 months' experience and supervisor's recommendation. For AFSC 2A1X2/X3, this SEI does not include experience gained on RC-135 aircraft (see SEI 581). ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months' experience and supervisor's recommendation.	1A100 1A3XX 2A190 2A300 2A551L 2A600 2A6X1A/C 2A6X6 2E8XX	1A190 1A591 2A1X2 2A4XX 2A571 2A690 2A6X4 2E000	1A1X1 2A000 2A1X3 2A531G 2A590 2A691 2A6X5 2E3X1
581	RC-135	Requires 12 months' experience and supervisor's recommendation. For AFSC 2A1X2/X3, this SEI does not include experience gained on RC-135 aircraft (see SEI 581). ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months' experience and supervisor's recommendation.	2A000 2A1X3 2A390 2A551L 2A600 2A6X6	2A190 2A1X7 2A4XX 2A571 2A690	2A1X2 2A300 2A531G 2A590 2A6X1A/C
583	KC-135	Requires supervisor's recommendation and either (1) factory training plus 6 months' experience; or (2) 12 months' experience.	2A1X2 2A4X2 2A6X1A/C	2A1X3 2A690 2A6X5	2A4X1 2A691 2A6X6
584	E-4A/B (AABNCP)	Requires 12 months' experience and supervisor's recommendation. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months' experience and supervisor's recommendation.	1A100 1A3XX 2A190 2A300 2A551L 2A600 2A6X1A/C 2A6X6 2E1X1	1A190 1A591 2A1X2 2A4XX 2A571 2A690 2A6X4 2E000 2E3X1	1A1X1C 2A000 2A1X3 2A531G 2A590 2A691 2A6X5 2E190
586	B-52	Requires 12 months' experience and supervisor's recommendation. For AFSCs 2A6X6, 2A390, 2W1X1, and 2A6X4, this SEI does not include experience gained on B-52D aircraft. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months experience and supervisor's recommendation.	2A000 2A1X2 2A300 2A590 2A690 2A6X3 2A6X6	2A190 2A1X3 2A4XX 2A5X3A 2A691 2A6X4 2W1XX	2A1X1 2A1X7 2A571 2A600 2A6X1A/C 2A6X5
588	B-1	Requires 12 months' experience and supervisor's recommendation. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months' experience and supervisor's recommendation.	2A000 2A300 2A590 2A600 2A6X1A/E 2A6X5	2A090 2A551K 2A5X1E 2A690 2A6X3 2W1XX	2A0X1B 2A571 2A5X3 2A691 2A6X4

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
589	T-39		2A000 2A190 2A1X2 2A1X3 2A300 2A4XX 2A571 2A5X1J 2A590 2A5X1A 2A600 2A690 2A691 2A6X1A/C 2A6X4 2A6X5 2A6X6
590	Special Air Missions (SAM) (VC-25/ VC-135/VC-137/ C-9/C-20/C-21	Requires 12 months' experience and supervisor's recommendation.	1A1XX 1A3XX 8A000
591	VC/C-9/T-43	Requires 12 months' experience and supervisor's recommendation. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months' experience and supervisor's recommendation.	2A000 2A190 2A1X2 2A1X3 2A300 2A4XX 2A571 2A5X1J 2A590 2A5X1A 2A600 2A690 2A691 2A6X1A/C 2A6X4 2A6X5 2A6X6
596	B-2	Requires either (1) completion of a formal B-2 course and 6 months' experience; or (2) 12 months' experience and supervisor's recommendation.	2A000 2A090 2A0X1B 2A190 2A1X2 2A1X3 2A300 2A4XX 2A551K 2A571 2A590 2A5X1E 2A5X3 2A600 2A690 2A691 2A6X1A/E 2A6X3 2A6X4 2A6X5 2A6X6 2A7XX
AIRCRAFT ENGINES AND AVIONIC SYSTEMS/EQUIPMENT SEIs			
600	F101	Requires 6 months' experience and supervisor's recommendation.	2A300 2A3X3A/B 2A333C/D/E/F/G/H/Z 2A353J/73J 2A390 2A600 2A691 2A6X1A/E
601	F100		2A300 2A3X3A/B 2A333C/D/E/F/G/H/Z 2A353J/73J 2A390 2A600 2A691 2A6X1A
602	F110		
603	J57		2A300 2A3X3A/B 2A333C/D/E/F/G/H/Z 2A353J/73J 2A390 2A600 2A691 2A6X1A/C
605	J69		
607	J79		
608	J85		
611	TF30		2A300 2A3X3A/B 2A333C/D/E/F/G/H/Z 2A353J/73J 2A390 2A600 2A691 2A6X1A/D
612	TF33		2A300 2A3X3A/B 2A333C/D/E/F/G/H/Z 2A353J/73J 2A390 2A600 2A691 2A6X1A
613	TF34	Requires 6 months' experience and supervisor's recommendation.	2A300 2A3X3A/B 2A333C/D/E/F/G/H/Z 2A353J/73J 2A390 2A600 2A691 2A6X1A/E

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
614	F108	Requires completion of course J4AMF/ASF/AST-454X0A-029 (PDS code 8K3) or contractor equivalent, 6 months' experience, and supervisor's recommendation.	2A600 2A691 2A6X1A/C
620	F4E/G APQ, Fire Control Radar System	Requires 12 months' experience, completion of a F-4E/G fire control radar system field training detachment course, and supervisor's recommendation.	2A190 2A1X3 2A490 2A4X2
621	Low Observable (LO) Maintenance	Requires 6 months' experience working LO structures and supervisor's recommendation.	2A790 2A7X3
625	Automated Engine Tracking	Requires 12 months' experience and supervisor's recommendation.	2A300 2A390 2A3X3 2A551L 2A571 2A590 2A600 2A691 2A6X1A 2R1XX
626	Radar Test Facility Techn	Requires 24 months' experience at 4484 Test Squadron's Radar Test Facility and supervisor's recommendation.	2A071A 2A090 2A174 2A351A 2A352A 2A371 2A372 2E851/71
628	Low Light Level Television	Requires 6 months' experience and supervisor's recommendation.	2A000 2A190 2A1X1
629	Tactical Electronic Reconnaissance (TEREC)	Requires supervisor's recommendation and either (1) formal training plus 6 months' experience; or (2) 12 months' experience.	1N5XX 2A000 2A1X7
630	AN/ALQ-131		2A000 2A090 2A0X1 2A1X7 2A300 2A390 2A3X1 2A3X2
633	Low Altitude Navigation Targeting Infrared for Night (LANTIRN)	Requires supervisor's recommendation and either (1) formal training plus 6 months' experience; or (2) 12 months' experience.	2A000 2A1X1 2A190
634	PAVE PENNY		
648	A-10 IATS	Requires supervisor's recommendation and either (1) formal A-10 IATS training plus 6 months' experience; or (2) 12 months' experience.	2A000 2A0X1B 2A090
649	Transportable Measurement System (TMS), AN/TSM-138ESS	Requires 12 months' experience and supervisor's recommendation.	2P051/71
651	Physical Measurement and Calibration	Requires completion of ATC course 3AZR32470-031 (PDS code 3R5) or 3AZR32470-019 (PDS code MNS) plus 12 months' experience and supervisor's recommendation.	2PXXX
652	Electrical-Electronic Measurement	Requires completion of ATC course 3AZR32470-026 (PDS code 1MP), 3AZR32470-034 (PDS code 67N), or 3AZR32470-015 (PDS code SEE) plus 12 months' experience and supervisor's recommendation.	
653	Radiac Instruments	Requires completion of ATC course 2ASR32470-002 (PDS code CTL) or G3AZR32470-000 (PDS code CTL), or equivalent, plus 12 months' experience and supervisor's recommendation.	
654	Microwave Measurement and Calibration	Requires completion of ATC course 3AZR32470-018 (PDS code UDC) or 3AZR32470-043 (PDS code PAO) plus 12 months' experience and supervisor recommendation.	
656	ALQ-119	Requires 12 months' experience and supervisor's recommendation.	2A000 2A0X1 2A090 2A1X7

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
657	Transportable Measurement System (TMS), AN/TSM-131ESS		2P051/71
659	Adverse Weather Aerial Delivery Systems (AWADS)	Requires completion of ATC course J4AMF/ASF/ AST 32871-080 (PDS code Z9Z), AN/APQ122(V) 1 Maintenance, 4AMF/ASF/AST 32871-089 (PDS code0EQ), AN/APQ122 (V) 1 Flightline Maintenance, and CV-2368/A Maintenance plus 12 months' experience and supervisor's recommendation.	2A000 2A190 2A1X2 2A1X3 2A300 2A4XX
660	AN/AWN 37	Requires 12 months' experience and supervisor's recommendation.	2A000 2A190
661	Spectrometric Oil Analysis	Requires supervisor's recommendation and either (1) formal training plus 6 months' experience; or (2) 12 months' experience.	2A7X2 2A300 2A390 2A3X3 2A590 2A5X1 2A5X2 2A600 2A691 2A6X1A 2A790 2PXXX
662	PAVE SPIKE	Requires supervisor's recommendation and either (1) formal training plus 6 months' experience; or (2) 12 months' experience.	2A000 2A190 2A1X1
663	PAVE TACK		
664	AN/307 Operator	Requires supervisor's recommendation and either (1) formal training plus 6 months' experience; or (2) 12 months' experience.	2A000 2A190
665	Digital Scan Converter Group (DSCG)		
668	AN/APX 81	Requires supervisor's recommendation and either (1) formal training plus 3 months' experience; or (2) 6 months' experience.	2A000 2A190 2A1X3 2A300 2A490 2A4X2
669	AN/APQ 99/172		2A000 2A190 2A300 2A490 2A4X2
670	AN/ARN 101		2A000 2A190 2A1X2 2A1X3 2A300 2A4XX
672	Target Identification System Electro-Optical (TISEO)		2A000 2A190 2A1X1
676	AN/ALQ-184	Requires supervisor's recommendation and either (1) 6 months' experience plus completion of course E3AZR-45651-003 (PDS code 7SZ) or a field training course; or (2) 12 months' experience.	2A1X7
677	Air Force Satellite Communications Systems (AFSAT COM)/Fleet Satellite Communications Systems (FLEETSATCOM)	Requires supervisor's recommendation and either (1) completion of a formal AFSATCOM course plus 6 months' experience; or (2) 12 months' experience.	1C6XX 2A000 2A090 2A0X1 2A190 2A1X3 2A300 2A390 2A3X1 2A3X2 2A490 2A4X2 2A590 2A5X3C 2E000 2E190 2E1X1 3C000 3C1X1 3C271
678	Advanced Range Instrumentation System	Requires 12 months' experience and supervisor's recommendation.	2E8XX
679	Rivet Eagle 66M Camera System	Requires completion of the appropriate General Dynamics course, 6 months' experience, and supervisor's recommendation.	2A000 2A190 2A1X1
680	ALM-204/ALQ-99E, Tactical Jamming Subsystem	Requires completion of courses J4AMF/ASF/AST-451X6B-001 (PDS code MTO), J4AMF/ASF/AST-451X6B-002 (PDS code MT1), and J4AMF/ASF/-AST451X6B-003 (PDS code MTB); 24 months' experience; and supervisor's recommendation.	2A090 2A0X1A

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
684	AN/ALQ-99E TJS	Requires supervisor's recommendation and either (1) formal training plus 8 months' experience; or (2) 12 months' experience. ***NOTE***: For individuals serving in 12 month short tour areas, designation criteria are 10 months' experience and supervisor's recommendation.	2A300 2A390 2A371 2A3X1C
690	Intermediate or Depot Level Maintenance	Requires 24 months' intermediate maintenance experience at base level or at a depot level repair facility, supervisor's recommendation.	2A000 2A090 2A051/71 2A190 2A151/71 2A152/72 2A153/73 2A154/74 2A157/77 2A553A/73A 2A600 2A690 2A651/71/91 2A654/74 2A655/75 2A656/76 2A790 2A753/73
		WEATHER SEIs	
750	Forecaster (Doppler Radar)	Requires supervisor's recommendation, completion of a formal Doppler weather radar management course, and 12 months' experience in operational use of Weather Surveillance Radar-1988, Doppler (WSR-88D).	1W0X1A 1W091/00
752	Forecasting (Radar)	Requires 12 months' experience in interpretation and operational use of weather radar and supervisor's recommendation. At least 6 months' experience must be as a radar coordinator.	
753	Forecasting (Space Environment)	Requires 12 months' experience in the Space Forecast Center, to include analysis of space environmental data and issuance of space environment forecasts and warnings, and supervisor's recommendation.	
754	Forecasting (Tropical)	Requires completion of course C3OZR2524-002 (PDS code FDD) or 12 months' experience in forecasting weather phenomena in tropic regions, and supervisor's recommendation.	
761	Observing	Requires 12 months' experience in operational use of a solar telescope (optical or radio) in observing and analysis, and supervisor's recommendation.	
798	Observing (Rawinsonde)	Requires supervisor's recommendation and 6 months experience to include a unit level training program on operational use of Rawinsonde equip.	1WXXX
800	Special Operations Weather Team	Requires 6 months' experience and supervisor's recommendation.	
		MISSILE IDENTITY SEIs	
802	International Nuclear Treaty Inspector	Requires completion of the Defense Intelligence College Strategic Arms Reduction Treaty Course or assignment to the On-Site Inspection Agency.	2M0X0 2M0X2

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
809	Missile Electronic Equipment Maintenance	Requires supervisor's recommendation, 12 months' experience, and completion of one of the following courses: C3AZR41150A-000 (PDS code 6LA), C3AZR41150A-001 (PDS code 6K9), C3AZR-41150A-002 (PDS code JM6), C3ABR31632G-001 (PDS code M53), C3ABR31632G-002 (PDS code E73), C3AZR41150B-002 (PDS code J5U), C3AZR-46650-001 (PDS code J5U), or C3AZR31672T-000 (PDS code 2YC). ***NOTE:*** For AFSCs 2M0X1A, the 12 months' experience must be obtained at a ICBM electronic laboratory.	2M0X0 2M0X1
828	MK-11/12A Reentry Vehicle	Requires supervisor's recommendation and either (1) 12 months' experience; or (2) formal training and 6 months' experience.	2W2XX
829	MK-12/12A Reentry System		
836	Munitions Inspector	Requires supervisor's recommendation and either (1) completion of the AETC Munitions Inspector course and 8 months' experience; or (2) 24 months' experience.	2W0XX
857	WS-133B	Requires 6 months' experience and supervisor's recommendation.	2A600 2A790 2A7X3 2E000 2E190 2E1X3 2E231C/51C/71/91 2E690 2E6X1 2E6X2 2E8XX 2M0XX 2RXXX 3E000 3E090 3E0X1 3E0X2 3E1X1
858	WS-133A/M		
860	WS-118	Requires 6 months' experience in a designated Peacekeeper missile maintenance position and supervisor's recommendation.	2A600 2A790 2A7X3 2E000 2E190 2E1X3 2E690 2E6X1 2E6X2 2E8XX 2MXXX 2RXXX 3E000 3E1X1
		COMMAND CONTROL SYSTEMS SEIs	
900	Combat Airspace Manager	Requires completion of courses TAC228550 (PDS Code ZEN) and TAC228555 (PDS Code 9TH), or ACC JAOSC (PDS Code 77L), participation in on Joint Chiefs of Staff exercise with combat airspace management employment, and commander's recommendation.	1C171/91/00
905	407L Tactical Air Control System	Requires 6 months' experience and supervisor's recommendation.	1C500 1C5X1 2A300 2A600 2A6X2 2E000 2E190 2E0X1 2E1X1 2E1X3 2E3X1 3C000 3C2XX 3E000 3E090 3E0X2
906	416L Continental Air Defense Control and Warning System		1C500 1C5X1 2E000 2E090 2E0X1 2E190 2E1X3 2E3X1 2E6X1 2E690

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
907	Defense Meteorological Satellite Program - Control Readout Station (CRS)	Requires 6 months' experience and supervisor's recommendation.	1C6XX
908	Defense Meteorological Satellite Program (DMSP) Command Control Center	Requires 6 months' experience and supervisor's recommendation.	2E000 2E4X1
910	Over the Horizon - Backscatter (OTH-B)	Requires 12 months' experience and supervisor's recommendation.	1C500 1C551/71/91 1C551D/71D
911	Modular Control Equipment (MCE), AN/TTQ-23		1C500 1C5X1 2A600 2A6X2 2E190 2E1X1 2E1X3 2E231A/51A 2E251/71/91 2E3X1 3C000 3C2XX
912	427M American Air Defense COC (NORAD)	Requires 6 months' experience and supervisor's recommendation.	1C500 1C5X1 2E000 2E190 2E1X1 2E1X4 2E2X1 2E3X1 3C000 3C2XX
914	Enlisted Terminal Attack Controller (ETAC)	Requires successful completion of TAC course 228560 (PDS code ZEP) or 228561 (PDS code 5RG), certification as an ETAC according to applicable MAJCOM directives, and recommendation by unit commander.	1C400 1C451/71/91
915	465L SAC Command Control Systems (SACCS)	Requires 6 months' experience and supervisor's recommendation.	1C3XX 2E000 2E190 2E1X4 2E3X1 3C000 3C1X1 3C2XX
916	Strategic Defense Radar Systems Evaluator	Requires 24 months' experience in the 84th Radar Evaluation Squadron or other radar evaluation unit in an evaluation function; completion of courses TAC-303RE 000 (PDS code 8YJ) and TAC303RE 001 (PDS code 8YW); and commander's recommendation.	1C5XX 1W071A 2E0X1 2E2X1 3C0XX
924	Department of the Air Force Command and Control System (DAFCCS)	Requires 6 months' experience and supervisor's recommendation.	1C3XX 1C500/X1 2E000
927	Ballistic Missile Early Warning System (BMEWS)-Mech		1C6XX
928	Ballistic Missile Early Warning System (BMEWS) - Phased-Array		
933	481L Post Attack Command and Control System (PACCS)		1A3XX 2E000 2E2X1 2E3X1
934	Fixed and Mobile Space Based Communications Operation	Requires 6 months' experience and supervisor's recommendation.	1C6XX 2E000 2E2X1 2E3X1 2E4X1
935	Space Based Communications Operation, Large Processing Station (LPS)		
936	Defense Satellite Communications System Operations Center	Requires assignment to a DSCSOC, 12 months' experience, and supervisor's recommendation.	1C600/91/71/51 3C000 3C291/71/51

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
	(DSCSOC)		
942	484L Presidential Aircraft Support System	Requires 6 months' experience and supervisor's recommendation.	2E000 2E1X1 2E190 2E1X3 2E3X1
954	487L Survivable Low Frequency Communications System		2A000 2A090 2A0X1B 2A190 2A1X3 2A300 2A390 2A3X3 2A490 2A4X2 2A590 2A5X1 2A5X3C 2A600 2A690 2A6X5 2A6X6 2E000 2E190 2E1X3 2E3X1 2E690 2E6X1 2E000
963	490L DCS Auto Voice Switching Program (AUTOVON)		2E000 3C000 3C2XX
970	Special Tactics	Requires completion of special tactics initial familiarization (IFAM) training conducted at Hurlburt Fld FL; 12 months' experience; and commander's certification. ***NOTE***: For individuals serving in 12 month short tour areas, experience requirement is reduced to 10 months'.	1C251/71/91/00 1T251/71/91/00
971	Special Tactics Operator	Requires completion of the special tactics operator initial familiarization (IFAM) training conducted at Pope AFB NC; 12 months' experience; and commander's certification.	1C251/71/91/00 1T251/71/91/00
978	Communications Satellites/Satellite Control Network	Requires 12 months' experience and supervisor's recommendation.	1C6XX
979	Space Defense Operations Center (SPADOC)	Requires 6 months' experience and supervisor's recommendation.	1C6XX
982	496L SPACETRACK (Phased-Array Radar/ Cobra Dane/FPS-85)		1C6XX 2E000 2E2X1 2E3X1 2E4X1 2E690
983	496L SPACETRACK (Optical Surveillance)		1C6XX 2E000 2E190 2E1X4 2E2X1
985	Research and Development Techn Serving in Development Engineering Position	Requires assignment to a scientific or development engineering position.	SDI 8E000
986	Sea Launched Ballistic Missile (SLBM) Phased-Array Warning System (PAVE PAWS)	Requires recommendation by immediate supervisor and either (1) 12 months' experience; or (2) 6 months' experience and formal training. ***NOTE***: For AFSCs 1C6X1,requires 6 months' experience and supervisor's recommendation.	1C6XX 2E000 2E2X1 2E4X1
988	Sector/Region Operations Control Center	Requires 6 months' experience and supervisor's recommendation. ***NOTE***: For AFSCs 2E2X1 and CEM 2E000 completion of course E1ASC30574-051 (PDS code ZHH), E1ASC30574-052 (PDS code ZHJ), E1ASC30574-054 (PDS code ZHL), or E2ASP30554-000 (PDS code 2GM) may be substituted for the	1C5XX 2E000 2E231A/51A/71/91

SEI Code	Title	Explanation/Designation Criteria	Authorized AFSCs/ CEM Codes
		experience requirement.	
990	Space Surveillance Center	Requires 6 months' experience and supervisor's recommendation.	1C6XX
991	Air Force Space Operations Center		
992	Space Command Center		
993	Global Positioning System		
994	Deep Space Tracking System	Requires 12 months' experience and supervisor's recommendation.	
995	Milstar		
996	Defense Support Program/ Satellite Control Network		

Attachment 42

CHIEF ENLISTED MANAGER (CEM) CODES

INTRODUCTION

1. Description and General Duties. CEM codes contained in this attachment identify all chief master sergeant positions in the Airman Classification Structure. They also identify chief master sergeants who, through extensive experience and training, have demonstrated managerial ability to plan, direct, coordinate, implement, and control a wide range of work activity. Some managerial duties and responsibilities that are common to all chief enlisted managers are:

1.1. Manages and directs personnel resource activities; interprets and enforces policy and applicable directives.
1.2. Establishes control procedures to meet work goals and standards.
1.3. Recommends or initiates actions to improve functional operation efficiency.
1.4. Plans and programs work commitments and schedules.
1.5. Develops plans regarding facilities, supplies, and equipment procurement and maintenance.

2. CEM Composition and Concept. CEM codes in many cases are made up of a series of existing superintendent specialties where the degree of supervisory and managerial task involvement permits expanded resource use. As chief enlisted managers, chief master sergeants will be subject to working in a variety of similar jobs and functional areas where their general managerial and supervisory abilities can be most effectively used and challenged.

3. Award Criteria. CEM codes are awarded according to procedures outlined in AFI 36-2101. Basic requirements for awarding CEM codes are:

3.1. Be in the grade of chief master sergeant (or chief master sergeant selectee).
3.2. Possess qualification in a feeder specialty. The expanded duties and responsibilities, qualifications, and other specialty data for CEM codes are drawn from 9 level "feeder" specialty descriptions, consistent with the function and job performed. The table that follows identifies CEM codes and their titles and feeder specialties.

CEM CODE	TITLE	9-LEVEL FEEDER
1A000	In-Flight Refueling Manager	1A091
1A100	Flight Engineer Manager	1A190
1A200	Aircraft Loadmaster Manager	1A291
1A300	Airborne Communications Systems Manager	1A391
1A400	Airborne Warning Command and Control Systems Manager	1A491
1A500	Airborne Missions System Manager	1A591
1C000	Air Operations Manager	1C091 1C092
1C100	Air Traffic Control Manager	1C191
1C200	Combat Control Manager	1C291
1C300	Command and Control Manager	1C391
1C400	Tactical Air Command and Control Manager	1C491
1C500	Aerospace Control and Warning System Manager	1C591
1C600	Space Systems Operations Manager	1C691
1N000	Intelligence Applications and Exploitation Manager	1N091 1N191
1N200	Signals Intelligence Analysis Manager	1N291 1N390 1N491
1N500	Electronic Signals Intelligence Exploitation Manager	1N591
1N600	Electronic Systems Security Assess Manager	1N691
1S000	Safety Manager	1S091
1T000	Survival, Evasion, Resist & Escape Training Manager	1T091
1T100	Aircrew Life Support Manager	1T191
1T200	Pararescue Manager	1T291
1W000	Weather Manager	1W091
2A000	Avionics Systems Manager	2A090 2A190
2A300	Aircraft Manager	2A390 2A490 2A590
2A600	Systems Manager	2A690 2A691 2A692 2A790
2E000	Communications-Electronics Systems Manager	2E091 2E190 2E291 2E391 2E491 2E690
2E600	Telephone and Distribution Comm Systems Manager	2E690
2E800	Instrumentation and Telemetry Systems Manager	2E891
2F000	Fuels Manager	2F091
2G000	Logistics Plans Manager	2G091
2M000	Missile and Space Systems Maintenance Manager	2M090
2P000	Precision Measurement Equipment Laboratory Manager	2P091
2R000	Maintenance Data Systems Analysis Manager	2R091
2R100	Maintenance Scheduling Manager	2R191
2S000	Supply Manager	2S090
2T000	Traffic Manager	2T091
2T100	Vehicle Operations Manager	2T191
2T200	Air Transportation Manager	2T291
2T300	Vehicle Maintenance Manager	2T390
2W000	Munitions Maintenance Manager	2W091
2W100	Aircraft Armament Manager	2W191
2W200	Nuclear Weapons Manager	2W291
3A000	Information Management Manager	3A091
3C000	Communications-Computer Systems Manager	3C090 3C191 3C192 3C291 3C391

CEM CODE	TITLE	9-LEVEL FEEDER
3E000	Civil Engineer Manager	3E090 3E191 3E291 3E391 3E490 3E591 3E691
3E700	Fire Protection Manager	3E791
3E800	Explosive Ordnance Disposal Manager	3E891
3E900	Readiness Manager	3E991
3H000	Historian Manager	3H091
3M000	Services Manager	3M091
3N000	Public Affairs Manager	3N090
3N100	Regional Band Manager	3N190
3N200	Premier Band Manager	3N291
3P000	Security Forces Manager	3P091
3R000	Printing Management Manager	3R091
3S000	Personnel Manager	3S090
3S100	Equal Opportunity and Treatment Manager	3S191
3S200	Education & Training Manager	3S291
3U000	Manpower and Quality Management Manager	3U091
3V000	Visual Information Manager	3V090
4A000	Health Services Management Manager	4A091
4A100	Medical Materiel Manager	4A191
4A200	Biomedical Equipment Manager	4A291
4B000	Bioenvironmental Engineering Manager	4B091
4C000	Mental Health Service Manager	4C091
4D000	Diet Therapy Manager	4D091
4E000	Public Health Manager	4E091
4F000	Aeromedical Manager	4F091
4H000	Cardiopulmonary Laboratory Manager	4H091
4J000	Biomedical Therapy Manager	4J091 4J092
4M000	Aerospace Physiology Manager	4M091
4N000	Medical Service Manager	4N091 4N191
4P000	Pharmacy Manager	4P091
4R000	Diagnostic Imaging Manager	4R090
4T000	Medical Laboratory Manager	4T090
4U000	Orthotic Manager	4U091
4V000	Optometry Manager	4V090
4Y000	Dental Manager	4Y090
5J000	Paralegal Manager	5J091
5R000	Chaplain Service Support Manager	5R091
6C000	Contracting Manager	6C091
6F000	Financial Manager	6F091
7S000	Special Investigations Manager	7S091

Attachment 43

INDEX

This index does not contain a listing of all skill level titles in every AFSC structure. It lists titles of each specialty description, reporting identifier, and special duty identifier. Chief enlisted manager titles and codes are listed separately (see attachment 42), and specialty descriptions are not written to this level in the Airman Classification Structure.

TITLE	AFSC	Page
A		
Aeromedical	4F0X1	289
Aerospace Control and Warning Systems	1C5X1	65
Aerospace Ground Equipment (AGE)	2A6X2	124
Aerospace Maintenance	2A5X1	116
Aerospace Maintenance (Superintendent)	2A590	115
Aerospace Physiology	4M0X1	294
Aerospace Propulsion	2A6X1	122
Air Traffic Control	1C1X1	60
Air Transportation	2T2X1	188
Airborne Communications Systems	1A3X1	51
Airborne Missions Systems	1A5X1	55
Airborne Surveillance Radar	2A1X4	104
Airborne Battle Systems Management	1A4X1	53
Aircraft Armament Systems	2W1X1	200
Aircraft Avionics (Superintendent)	2A490	111
Aircraft Command Control Communications & Navigation Systems	2A4X3	114
Aircraft Communication and Navigation Systems	2A4X2	113
Aircraft Electrical and Environmental Systems	2A6X6	129
Aircraft Fabrication (Superintendent)	2A790	130
Aircraft Fuel Systems	2A6X4	127
Aircraft Guidance and Control Systems	2A4X1	112
Aircraft Hydraulic Systems	2A6X5	128
Aircraft Loadmaster	1A2X1	49
Aircraft Metals Technology	2A7X1	131
Aircraft Structural Maintenance	2A7X3	133
Aircraft Systems (Superintendent)	2A690	125
Aircrew Egress Systems	2A6X3	126
Aircrew Life Support	1T1X1	89
Airfield Management	1C0X1	58
Airman Aide	9G000	25
Airman Awaiting Discharge, Separation, or Retirement for Beyond Their Control	9A300	25
Airman Awaiting Discharge, Separation, or Retirement for Rsns Within Their Ctrl	9A200	24
Airman Awaiting Retraining - Disqualified for Reasons Beyond Control	9A000	24
Airman Awaiting Retraining - Disqualified for Reasons Within Control	9A100	24
Airman Ineligible for Local Utilization	9U000	26
Applied Geophysics	9S100	25
Applied Sciences	9S200	25
Avionics Guidance and Control Systems	2A1X2	102
Avionics Sensors Maintenance	2A1X1	101
Avionics Test Station and Components	2A0X1	98

B

Basic Airman ..9T000 25
Bioenvironmental Engineering ..4B0X1 282
Biomedical Equipment ..4A2X1 280
Bomber Avionics Systems ..2A5X3 120

C

Cardiopulmonary Laboratory ..4H0X1 290
Chaplain Service Support ..5R0X1 318
Chief Master Sergeant of the Air Force ..9C000 25
Civil Air Patrol (CAP)-USAF Reserve Assistance NCOs ..9R000 25
Combat Control ..1C2X1 61
Command and Control ..1C3X1 63
Communication and Navigation Systems ..2A1X3 103
Communications and Antenna Systems ..2E6X1 154
Communications Cable Systems ..2E6X2 156
Communications Systems (Superintendent) ..2E190 138
Communications-Computer Systems (Superintendent) ..3C090 206
Communications-Computer Systems Control ..3C2X1 213
Communications-Computer Systems Operations ..3C0X1 207
Communications-Computer Systems Planning and Implementation ..3C3X1 215
Communications-Computer Systems Programming ..3C0X2 209
Contracting ..6C0X1 321
Conventional Avionics (Superintendent) ..2A190 100
Correctional Custody Supervisor ..8J000 37
Courier ..8P000 39
Cryptologic Linguist ..1N3XX 76
Cryptologic Linguist (Superintendent) ..1N390 75
Cytotechnology ..4T0X3 307

D

Defense Attaché ..8P100 40
Dental (Superintendent) ..4Y090 312
Dental Assistant ..4Y0X1 313
Dental Laboratory ..4Y0X2 314
Diet Therapy ..4D0X1 286
Dormitory Manager ..9D000 25
Diagnostic Imaging ..4R0X1 301
Diagnostic Imaging (Superintendent) ..4R090 301

E

Education and Training ..3S2X1 264
Electrical (Superintendent) ..3E090 218
Electrical Power Production ..3E0X2 220
Electrical Systems ..3E0X1 219
Electromagnetic Spectrum Management ..3C1X2 212
Electronic Computer and Switching Systems ..2E2X1 147
Electronic Signals Intelligence Exploitation ..1N5X1 80
Electronic System Security Assessment ..1N6X1 81
Electronic Warfare Systems ..2A1X7 105

Engineering 3E5X1 231
Environmental 3E4X3 230
Equal Opportunity and Treatment 3S1X1 262
Explosive Ordnance Disposal 3E8X1 234

F

F-15/F-111 Avionic Systems 2A3X1 107
F-16 Avionic Systems 2A3X2 109
Family Support Center 8C000 31
Financial Analysis 6F1X1 325
Financial Management 6F0X1 234
Fire Protection 3E7X1 233
First Sergeant 8F000 35
Flight Engineer 1A1X1 47
Flight Engineer (Superintendent) 1A190 47
Fuels 2F0X1 163

G

General Purpose Vehicle Maintenance 2T341 194
Ground Radar Systems 2E0X1 136
Ground Radio Communications 2E1X3 143

H

Health Services Management 4A0X1 278
Heating, Ventilation, Air Conditioning, and Refrigeration 3E1X1 222
Helicopter Maintenance 2A5X2 118
Histopathology 4T0X2 306
Historian 3H0X1 239

I

Imagery Analysis 1N1X1 72
In-Flight Passenger Service Specialist 8A000 28
In-Flight Refueling 1A0X1 46
Information Management 3A0X1 204
Instrumentation and Telemetry Systems 2E8X1 160
Intelligence Applications 1N0X1 70
Interpreter/Translator 9L000 25

L

Linguist Debriefer/Interrogator 8D000 32
Liquid Fuel Systems Maintenance 3E4X2 229
Logistics Plans 2G0X1 166

M

Maintenance Data Systems Analysis 2R0X1 177
Maintenance Scheduling 2R1X1 178
Manpower and Quality Management 3U0X1 267
Medical Laboratory 4T0X1 304
Medical Laboratory (Superintendent) 4T090 303
Medical Materiel 4A1X1 279
Medical Service 4N0X1 296
Mental Health Service 4C0X1 284
Meteorlogical and Navigation Systems 2E1X2 141
Military Training Instructor 8B000 29
Military Training Manager 8B100 30
Missile and Space Facilities 2M0X3 173
Missile and Space Systems Electronic Maintenance 2M0X1 170
Missile and Space Systems Maintenance 2M0X2 172
Missile and Space Systems Maintenance (Superintendent) 2M090 169
Missile Facility Manager 8S000 42
Munitions Systems 2W0X1 198

N

Nondestructive Inspection 2A7X2 132
Nuclear Weapons 2W2X1 202

O

Occupational Therapy 4J0X1 292
Officer Trainee 9T100 25
Operations 3E6X1 232
Operations Resource Management 1C0X2 59
Optometry 4V0X1 309
Optometry (Superintendent) 4V090 309
Orthotic 4U0X1 308

P

Paralegal 5J0X1 306
Pararescue 1T2X1 90
Patient 9P000 24
Pavements and Construction Equipment 3E2X1 223
Personnel 3S0X1 258
Personnel (Superintendent) 3S090 257
Personnel System Management (PSM) 3S0X2 260
Pharmacy 4P0X1 300
Physical Therapy 4J0X2 293
Postal 8M000 38
Precadet Assignee 9T200 26
Precision Measurement Equipment Laboratory 2P0X1 175
Premier Band 3N2X1 250
Printing Management 3R0X1 255
Prisoner 9J000 25
Professional Military Education Instructor 8T000 44
Public Affairs 3N0X1 246
Public Affairs (Superintendent) 3N090 245

Public Health 4E0X1 288

R

Radio and Television Broadcasting 3N0X2 247
Radio Communications Systems 3C1X1 211
Readiness 3E9X1 236
Recruiter 8R000 41
Regional Band 3N1X1 248
Regional Band (Superintendent) 3N190 230
Research and Development Technician 8E000 34

S

Safety 1S0X1 84
Satellite and Wideband Communications Equipment 2E1X1 139
Secure Communications Systems 2E3X1 149
Security Forces 3P0X1 252
Senior Enlisted Advisor 9E000 25
Sensor Operator 8S100 43
Services 3M0X1 242
Signals Intelligence Analysis 1N4X1 79
Signals Intelligence Production 1N2X1 74
Space Systems 2E4X1 151
Space Systems Operations 1C6X1 67
Special Investigations 7S0X1 328
Special Purpose Vehicle and Equipment Maintenance 2T3X1 192
Special Vehicle Maintenance 2T3X2 193
Still Photographic 3V0X2 272
Structural 3E3X1 225
Supply Management 2S0X1 181
Supply Management (Superintendent) 2S090 180
Supply Systems Analysis 2S0X2 182
Surgical Service 4N1X1 298
Survival Equipment 2A7X4 134
Survival, Evasion, Resistance, and Escape Training 1T0X1 87

T

Tactical Air Command and Control 1C4X1 64
Tactical Aircraft (Superintendent) 2A390 106
Tactical Aircraft Maintenance 2A3X3 110
Telephone and Distributed Communications Systems (Superintendent) 2E690 153
Telephone Systems 2E6X3 158
Traffic Management 2T0X1 184

U

Unallotted Airman Authorization 9U100 26
United States Air Force Honor Guard 8G000 36
Utilities Systems 3E4X1 228
Utilities Systems (Superintendent) 3E490 227

V

Vehicle Body Maintenance 2T4X2 195
Vehicle and Equipment Maintenance (Craftsman)..... 2T370 191
Vehicle Maintenance (Superintendent) 2T390 190
Vehicle Maintenance Control and Analysis 2T3X7 196
Vehicle Operations..... ..2T1X1 186
Visual Imagery and Intrusion Detection Systems..... 2E1X4 145
Visual Information Production-Documentation 3V0X3 274
Visual Information Services (Superintendent) 3V090 270
Visual Information Services..... 3V0X1 271

W

Weather 1W0X1 93