UNITED STATES
AIR FORCE

OCCUPATIONAL SURVEY REPORT

ELECTRONIC WARFARE SYSTEMS
CAREER LADDER

AFSC 456X1A/B

AFPT 90-328-499

APRIL 1991

OCCUPATIONAL ANALYSIS PROGRAM
USAF OCCUPATIONAL MEASUREMENT SQUADRON
AIR TRAINING COMMAND
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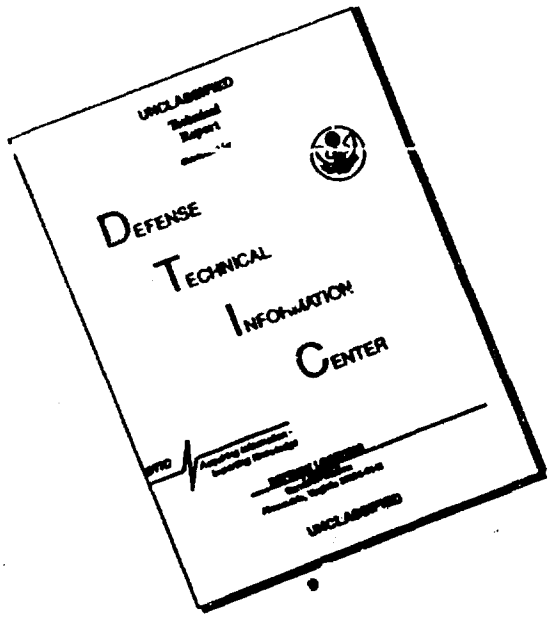

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HQ PACAF/TTA	1		1	
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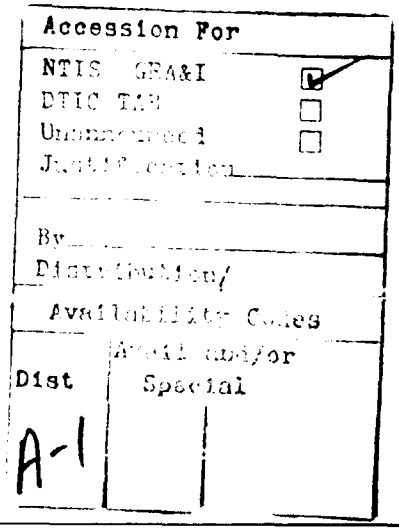

TABLE OF CONTENTS

TABLE OF CONTENTS
(Tables, Figures, Appendices)

TABLE OF CONTENTS (CONTINUED)
(Tables, Figures, Appendices)

PREFACE

This report presents the results of an Air Force Occupational Survey of the Electronic Warfare Systems career ladder (AFSC 456X1A/B). Authority for conducting occupational surveys is contained in AFR 35-2. Computer products upon which this report is based are available for use by operations and training officials.

The survey instrument was developed by Captain Richard D. Ketch, Inventory Development Specialist. MSgt Cornelia J. Wharton, Computer Programmer, provided computer support for this project. Administrative support was provided by Ms Tamme Lambert. First Lieutenant Lisa A. Boyce analyzed the data and wrote the final report. This report has been reviewed and approved by Lieutenant Colonel Charles D. Gorman, Chief, Airman Analysis Section, Occupational Analysis Branch, USAF Occupational Measurement Squadron.

An Electronic Warfare Systems Training Requirements Analysis (TRA) is being accomplished in conjunction with the Electronic Warfare Systems OSR. The TRA will provide a comprehensive data base to support anticipated training decisions for the career ladder. It consists of three sections: a) System Overview--an overall perspective of the career ladder training; b) Task Analysis--detailed training decisions data for career ladder technical tasks; and c) Training Requirements/Recommendations--what should be trained, when training should occur, and where training should be provided. Copies of the TRA may be obtained from USAF Occupational Measurement Squadron, Detachment 4, Goodfellow AFB, Texas 76908-5000.

Copies of this occupational survey report are distributed to Air Staff sections, major commands, and other interested training management personnel (see distribution on page i). Additional copies are available upon request to the USAF Occupational Measurement Squadron, Attention: Chief, USAF Occupational Analysis Branch (OMY), Randolph AFB, Texas 78150-5000.

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SUMMARY OF RESULTS

1. Survey Coverage: Survey results are based on responses from 2,187 Electronic Warfare Systems specialists (AFSC 456X1A/B). This represents 66 percent of all assigned 456X1 airmen. Incumbents were surveyed across all using major commands and include 3-, 5-, and 7-skill level personnel.

2. Career Ladder Structure: Eighteen clusters and twelve independent job types are identified in the 456X1 specialty. These 30 jobs represent 91 percent of the survey sample. The career ladder structure is organized around the different electronic warfare systems which 456X1 airmen maintain. Many of the systems appear to be MAJCOM specific. Ten jobs are primarily performed by TAF personnel, 7 jobs are mostly performed by SAC personnel, and 6 jobs are mainly performed by ESC personnel. The other major jobs are nontechnical functions, such as supervisory and support jobs, and are performed by members across all using MAJCOMs. This career ladder structure information is helpful in reviewing the utilization and training of the Electronic Warfare Systems specialty.

3. Career Ladder Progression: Both 3- and 5-skill level personnel are performing jobs primarily technical in nature, with little responsibility for supervision and management. The jobs performed by 7-skill level airmen reflect a decline in time spent performing technical tasks, while supervisory and managerial responsibilities increase substantially.

4. AFR 39-1 Specialty Descriptions: The descriptions in AFR 39-1 for the 456X1 Electronic Warfare Systems career ladder provide a broad overview of the tasks and duties performed. However, mobility, CUT, and airborne duties are not clearly depicted in the regulation. Also, certain equipment, including signal analysis and direction finders, are cited in AFR 39-1, but are not being maintained by sufficient percentages of 456X1 personnel. A thorough review of the specialty descriptions is clearly warranted.

5. MAJCOM Analysis: Analysis identified job and task differences between the various MAJCOMs. The major distinctions noted were among TAF (TAC, USAFE, and PACAF), SAC, and ESC. Although a small core of common general EW maintenance tasks are performed across all MAJCOM groups, specific systems are maintained primarily by TAF, SAC, or ESC personnel. Differences were also noted between ATC and AFLC and the other MAJCOMs.

6. Training Analysis: A review of the 456X1 training documents identified several discrepancies. Specifically, 62 out of 181 matched STS line items and 31 out of 74 matched POI objectives have less than 20 and 30 percent of the appropriate 456X1 airmen performing the related tasks, respectively. Several tasks with sufficient members performing are also not referenced to the STS and POIs. Survey data suggest that a review of the STS and POI is necessary to rectify these discrepancies.

7. Job Satisfaction: Overall, respondents are generally satisfied with their jobs. Job satisfaction is similar or slightly lower for the current Electronic Warfare Systems career ladder when compared with other Mission Equipment Maintenance personnel surveyed in 1990. All 456X1 enlistment groups perceive lower levels of utilization of training than personnel in similar AFSCs surveyed in 1990. Also, levels of satisfaction in the current survey show a lower view of job interest by first-enlistment members and utilization of talent and training by career members than was noted in the 1984 OSR. Finally, members in each career ladder job responded with similar moderate levels of satisfaction across all five job satisfaction indicators. As a whole, members in the Pod System Maintenance I, B-52G/H Semiautomatic Systems Maintenance, and Flightline Maintenance clusters reflect the highest levels of satisfaction when compared to the other jobs.

8. Implications: The AFSC 456X1 career ladder is fairly diverse. Thirty jobs relating to specific EW systems maintenance or support activities are being performed by MAJCOM-specific groups. The AFR 39-1 job descriptions should be reviewed. Mobility, CUT, and airborne duties are not clearly identified in the specialty descriptions. Also, specific equipment is described in the regulation, but only a small percent of the appropriate skill level personnel perform maintenance on the systems. In terms of training documents, several discrepancies are noted. Both the STS and POIs contain elements which are not supported by survey data. Several high performance tasks are not referenced to the STS and POIs. Job satisfaction is good for the jobs identified. When compared to other Mission Equipment Maintenance specialties, AFSC 456X1 members show similar or slightly lower levels of satisfaction. Satisfaction levels are also similar or slightly lower when compared to previous OSR data published in 1984. Lower levels of satisfaction are noted particularly in utilization of training by all TAFMS groups. Differences identified between MAJCOMs include TAC, USAFE, and PACAF; SAC; and ESC members, who maintain systems specific to their commands. Differences between ATC, AFLC, and other MAJCOMs are also identified.

OCCUPATIONAL SURVEY REPORT
ELECTRONIC WARFARE SYSTEMS CAREER LADDER
(AFSC 456X1A/B)

INTRODUCTION

This is a report of an occupational survey of personnel in the Electronic Warfare Systems career ladder (AFSC 456X1A/B). This survey was requested by the Chief, Aircraft and Munitions Maintenance Training Division (HQ ATC/TTOAS). The last occupational survey of this career ladder was published in May 1984.

The 456X1 career ladder has experienced several changes since the initiation of RIVET WORKFORCE in 1987. Although RIVET WORKFORCE implementation mainly involved a code conversion for this AF specialty, significant changes in equipment types and configurations make it necessary to update the ABR courses. The primary purpose of this Occupational Survey Report was to collect current data to assist verification of utilization and training within the specialty. The survey will also help validate AFR 39-1 and current CDC revision efforts.

Background

According to AFR 39-1 Specialty Descriptions for AFSC 456X1A/B, dated 15 March 1989, Electronic Warfare Systems Specialists install, maintain, and repair avionic electronic warfare (EW) equipment, intercept and analysis equipment, and special purpose support equipment. AFSC 45671 Technicians perform or supervise many of these same functions. In addition, 7-skill level technicians are responsible for inspecting, troubleshooting, overhauling, and modifying EW and electronic intercept and analysis equipment. The 9-skill level members superintend personnel installing, repairing, maintaining, replacing, overhauling, and modifying EW, offensive and defensive systems; associated test equipment; and special purpose support equipment.

AFSC 456X1A/B was coded as AFSC 328X3 prior to April 1988. Currently, the shreds (suffix) are at the 3- and 5-skill levels only and denote the type of mission supported:

A Suffix . . . . . Strategic
B Suffix . . . . . Tactical

The 456X1 specialty requires an ASVAB Electronic score of "67" and an "X" factor of "N" (100 lbs) to qualify for entry. Completion of high school with courses in physics and mathematics is desirable. As a Category "A" training specialty, completion of the basic Electronic Warfare Systems Specialist course is mandatory for award of the semiskilled AFSC. Two ABR courses are offered by the technical school located at Keesler AFB MS. Course E3ABR45631A-000, Apprentice Electronic Warfare Systems Specialists-Strategic, is 37 weeks and 3 days in duration. Course E3ABR45631B-000, Apprentice Electronic Warfare Systems Specialists-Tactical, is 34 weeks and 4 days in duration. The first 27.6 weeks of Course E3ABR45631A and Course E3ABR45631B are the same, consisting of 16.8 weeks of electronic principles and 10.8 weeks of training on the panoramic receiver (AN/ALR-20A), radar warning receiver (AN/ALR-46A), and transmitter principles. The last 10 weeks of Course E3ABR45631A-000 consist of training on the power management system (AN/ALQ-155) and electronic countermeasures system (AN/ALQ-117). The last 7.2 weeks of Course E3ABR45631B-000 include training on the chaff-flare dispenser (AN/ALE-40) and EW pod (AN/ALQ-119).

SURVEY METHODOLOGY

Inventory Development

The data collection instrument for this occupational survey was USAF Job Inventory AFPT 90-328-499. A preliminary task list was prepared by the Inventory Developer after carefully reviewing previous task lists, current career ladder publications, training documents, and directives to determine the appropriateness of each task. This tentative task list was refined and validated in the ladder through personal interviews with 52 subject-matter experts representing 9 operational bases. To ensure full coverage of the variety of tasks performed by career ladder members, bases with representative and unique missions were visited. Operational units at the following bases were visited:

BASE	RATIONALE FOR VISIT
Barksdale AFB LA	B-52G and ALQ-172
Beale AFB CA	SR-71 and TR-1
Bergstrom AFB TX	RF-4C
England AFB LA	A-10 (3 step process)
George AFB CA	F-4G and OV-10
Hurlburt Field FL	AC-130, MC-130, and helicopters Special Operation Forces
Keesler AFB MS	456X1 Technical Training School
Nellis AFB NV	F-16 and A-10 pod maintenance
Offutt AFB NE	ESC and SAC RC-135 airborne

Other significant contacts with personnel having career ladder involvement included classification, training, and resource managers; the Air Force functional manager; and the HQ ATC Training Staff Officer.

This process resulted in a final job inventory containing 1,054 tasks organized under 23 duty headings. Also included was a background section requesting such information as grade, time in service, job satisfaction, reenlistment intentions, work area, position title, and support equipment used or operated.

Survey Administration

From March through June 1990, Consolidated Base Personnel Offices (CBPO) at operational bases worldwide administered the inventory to all eligible DAFSC 456X1 personnel. Members eligible for the survey consisted of the total assigned population, excluding the following: (1) hospitalized personnel, (2) members in transition for a permanent change of station, (3) members retiring during the time inventories were administered to the ladder, and (4) members in the job less than 6 weeks. Participants were selected from a computer-generated mailing list obtained from personnel data tapes maintained by the Armstrong Laboratory, Human Resources Directorate (AL/HRD).

Each individual who filled out an inventory booklet first completed an identification and biographical information section, and then checked each task performed in their current job. Next, members rated these tasks on a 9-point scale showing relative time spent on each task, as compared to all other tasks checked. Ratings ranged from 1 (very small amount of time spent) to 9 (very large amount of time spent).

To determine relative percent time spent for each task checked by a respondent, all of the incumbent's ratings are assumed to account for 100 percent of his or her time spent on the job. The rating for each task is divided by the sum of all the ratings, then multiplied by 100 to provide a relative percentage of time for each task. This procedure provides the basis for comparing tasks in terms of both percent members performing and average relative percent time spent.

Survey Sample

All eligible personnel were administered survey booklets. Personnel who had been in their present job at least 6 weeks and not in permanent change of station (PCS) status, retirement, or hospital status, were considered eligible for the survey. Table 1 displays the MAJCOM distribution of survey respondents corresponding with the percent of assigned personnel as of February 1990. As shown in Table 1, the majority of 456X1 members are assigned to SAC, TAC, ESC, and USAFE. In addition, Table 2 displays survey respondents across paygrade groups. As illustrated in these tables, the survey sample is representative. The 2,187 respondents in the final sample represent 66 percent of all assigned AFSC 456X1 personnel.

TABLE 1

COMMAND REPRESENTATION OF SURVEY SAMPLE
AFSC 456X1 A/B

COMMAND	PERCENT OF ASSIGNED	PERCENT OF SAMPLE
SAC	27	26
TAC	27	26
ESC	15	15
USAFE	11	13
MAC	7	7
PACAF	6	6
ATC	5	5
OTHER*	3	3

* Other: Includes personnel in AAC, AFLC, AFSC, AFCC, EUR, ELM

**	Total Assigned:	3,313
***	Total Eligible for Survey:	2,858
	Total in Sample:	2,187
	Percent of Assigned in Sample:	66%
	Percent of Eligible in Sample:	77%

** Assigned strength as of February 1990

*** Excludes those in PCS, retirement, discharge, or hospital status; and those with less than 6 weeks on the job

NOTE: Columns add to more than 100 percent due to rounding

TABLE 2

PAYGRADE DISTRIBUTION OF SURVEY SAMPLE
AFSC 456X1A/B

PAYGRADE	PERCENT OF ASSIGNED*	PERCENT OF SAMPLE
AIRMAN	11	10
E-4	33	30
E-5	34	37
E-6	14	15
E-7	8	8
E-8	-	-

* Assigned strength as of February 1990
- Less than 1 percent

Task Factor Administration

Selected senior personnel completed a second booklet in addition to the job inventory booklet. This second booklet is used to gather information for either training emphasis (TE) or task difficulty (TD). The TE and TD booklets are processed separately from the job inventories and provide task rating information which is used in a number of different analyses discussed in more detail in the following section of this report.

Task Difficulty (TD). TD is defined as the length of time an average incumbent needs to learn to perform a task. Given this definition, 130 senior technicians rated the difficulty of all the inventory tasks on a 9-point scale (from extremely low to extremely high). Each technician's ratings were compared to those of every other senior technician's. A statistical measurement of rating agreement, known as the interrater reliability, indicated acceptable agreement among raters as to the relative difficulty of the tasks. TD ratings were adjusted, so tasks of average difficulty would have ratings of 5.00. The resulting data are essentially a rank ordering of tasks indicating the degree of difficulty for each task in the inventory.

Training Emphasis (TE). TE is a rating of which tasks require structured training for first-term personnel and the amount of emphasis that should be placed on training those tasks. Experienced technicians (primarily 7-skill level) completing TE booklets rated tasks on a 10-point scale (from very little training emphasis to extremely high training emphasis). Ratings were independently collected from 117 NCOs, representing the major using MAJCOMs. Each technician's ratings were compared to those of every other senior technician's. As with TD, a statistical measurement of their agreement, known as the interrater reliability, was found to be acceptable. Good agreement was found as to which tasks should be emphasized in first-term training.

These tasks having the highest TE ratings from all raters were clearly general tasks which were common to the larger MAJCOMs. The overall ratings, however, did not appear to adequately capture a true picture of what training should be provided on unique tasks related to MAJCOM-specific systems, since these tasks tended to fall toward the middle or lower end of the listing. Therefore, the 117 TE raters were divided into 3 MAJCOM groups (Tactical Forces, including TAC, USAFE, PACAF, SAC, and ESC), and ratings within MAJCOM groups were further analyzed. Based on this analysis, it appeared that there were major differences in TE ratings for MAJCOM-unique tasks. For example, TAF raters placed higher emphasis on maintaining AN/ALE-40 dispensing system LRUs than SAC or ESC raters. Conversely, SAC raters placed greater emphasis on maintaining AN/ALR-20A receiving system LRUs, while ESC raters emphasized maintaining EW support equipment, such as analyzing memory devices and logic circuits.

Consequently, several sets of TE ratings will be used in later sections of this OSR dealing with training. TE TOT (total) ratings will be used for tasks common to all groups. These ratings will be extremely useful in identifying those tasks which could be commonly trained across all MAJCOMs. TE TAF, TE SAC, and TE ESC ratings will be used to discuss MAJCOM-specific training.

TE ratings provide objective information which should be used along with TD and percent members performing data when making training decisions. Percent members performing data provide information on how many personnel perform the tasks; TE and TD ratings provide insights on which tasks need training. Using these factors, in conjunction with appropriate training documents and directives, career ladder managers can tailor training programs to accurately reflect the needs of the user by more effectively determining when, where, and how to train first-enlistment AFSC 456X1 personnel.

Data Processing and Analysis

Once job inventories are returned from the survey respondents, task responses and background information are optically scanned and entered into a UNISYS 1100 mainframe computer. Computer-generated programs, using Comprehensive Occupational Data Analysis Program (CODAP) techniques, are then applied to the data.

CODAP produces composite job descriptions for respondents based on their ratings of specific inventory tasks. These job descriptions provide information on percent members performing each task, the relative average percent time spent performing tasks, and the cumulative percent time spent by all members performing tasks in the inventory. In addition to the job descriptions based upon inventory task data, the program produces summaries that show how members of each group responded to each background item. Background items aid in identifying characteristics of the group, such as DAFSCs represented, time in career ladder, total active federal military service (TAFMS), experience in various work areas, equipment operated, and job satisfaction levels.

SPECIALTY JOBS
(Career Ladder Structure)

A key aspect of the USAF Occupational Analysis Program is to examine the job structure of a career ladder. Based on incumbent responses to survey questions, the tasks performed by career ladder personnel are examined, and jobs are identified based on the similarity of tasks and the relative time personnel spend performing the tasks. The resulting job structure is then compared to official career ladder documents. This information can be used to examine the accuracy and completeness of career ladder documents (AFR 39-1 Specialty Descriptions and Specialty Training Standards) and to gain an understanding of current utilization patterns.

For this report, the career ladder structure is described in terms of clusters and independent job types. The JOB TYPE is the basic unit of job analysis. It represents a specific group of individuals performing basically the same tasks and spending similar amounts of time on those tasks. When job type members perform tasks in common with other groups, they merge to form a larger unit of related jobs termed a CLUSTER. Specialized job types too dissimilar to fit within a cluster are labeled INDEPENDENT JOB TYPES (IJT).

Structure Overview

The specialty job structure of the Electronic Warfare Systems career ladder was determined by performing a job type analysis of the survey data provided by the 2,187 survey respondents. The jobs performed by these airmen separated into 18 clusters and 12 independent job types. As depicted in Figure 1, 10 of the jobs were TAF specific; that is, they were primarily performed by TAC, PACAF, and USAFE personnel. Seven jobs were SAC specific, incorporating primarily SAC personnel, and six jobs were ESC specific. The remaining seven jobs were support related, involving such functions as training, supply, or supervisory and managerial activities.

The 18 clusters and 12 independent job types are listed below. Jobs I through X are primarily TAF or "B" shred jobs; Jobs XI through XVII are primarily SAC or "A" shred jobs; Jobs XVIII through XXIII are primarily ESC jobs; and Jobs XXIV through XXX are the support functions. The stage (STG) number beside each title is a computer-generated reference number. The letter "N" stands for the number of personnel in each group.

TAF (B-SHRED) JOBS

I. POD SYSTEMS MAINTENANCE I CLUSTER (STG262, N=265)

II. AN/ALQ-188 POD SYSTEM MAINTENANCE IJT (STG251, N=13)

III. POD SYSTEMS MAINTENANCE II CLUSTER (STG046, N=41)

IV. RECEIVING SYSTEMS MAINTENANCE CLUSTER (STG291, N=406)

V. AN/ALE-40 DISPENSING SYSTEMS MAINTENANCE CLUSTER (STG092, N=20)

VI. COMPASS CALL PRIME MISSION EQUIPMENT (PME) MAINTENANCE (IN-FLIGHT) CLUSTER (STG052, N=25)

VII. COMPASS CALL PME MAINTENANCE (SHOP) IJT (STG480, N=38)

VIII. AN/ALQ-125 TACTICAL ELECTRONIC RECONNAISSANCE (TEREC) SYSTEM MAINTENANCE IJT (STG347, N=7)

IX. CROSS UTILIZATION TRAINING CLUSTER (STG108, N=28)

X. TAF JOB CONTROL IJT (STG621, N=6)

SAC (A-SHRED) JOBS

XI. B-52G/H SEMIAUTOMATIC SYSTEMS MAINTENANCE CLUSTER (STG264, N=126)

XII. B-52G/H GENERAL SYSTEMS MAINTENANCE CLUSTER (STG370, N=183)

XIII. SYSTEM 27 MAINTENANCE CLUSTER (STG595, N=16)

XIV. IN-FLIGHT MAINTENANCE (RC-135U/V/W) IJT (STG325, N=7)

XV. FLIGHTLINE MAINTENANCE (RC-135U/V/W) CLUSTER (STG522, N=37)

XVI. FLIGHTLINE JOB CONTROL IJT (STG364, N=7)

XVII. MAINTENANCE ANALYSIS IJT (STG299, N=5)

ESC (A-SHRED) JOBS

XVIII. ESC MAINTENANCE CLUSTER (STG290, N=36)

XIX. GENERAL SHOP MAINTENANCE CLUSTER (STG170, N=37)

XX. AIRBORNE MAINTENANCE CLUSTER (STG191, N=128)

XXI. SUPPORT EQUIPMENT MAINTENANCE IJT (STG635, N=11)

XXII. TACTICAL GROUND INTERCEPT FACILITY (TGIF) MAINTENANCE IJT (STG243, N=7)

XXIII. ESC JOB CONTROL IJT (STG276, N=7)

SUPPORT JOBS

XXIV. TRAINING CLUSTER (STG100, N=78)

XXV. COURSEWARE DEVELOPMENT IJT (STG535, N=8)

XXVI. SUPPLY CLUSTER (STG078, N=65)

XXVII. TECHNICAL ORDER MANAGEMENT IJT (STG163, N=5)

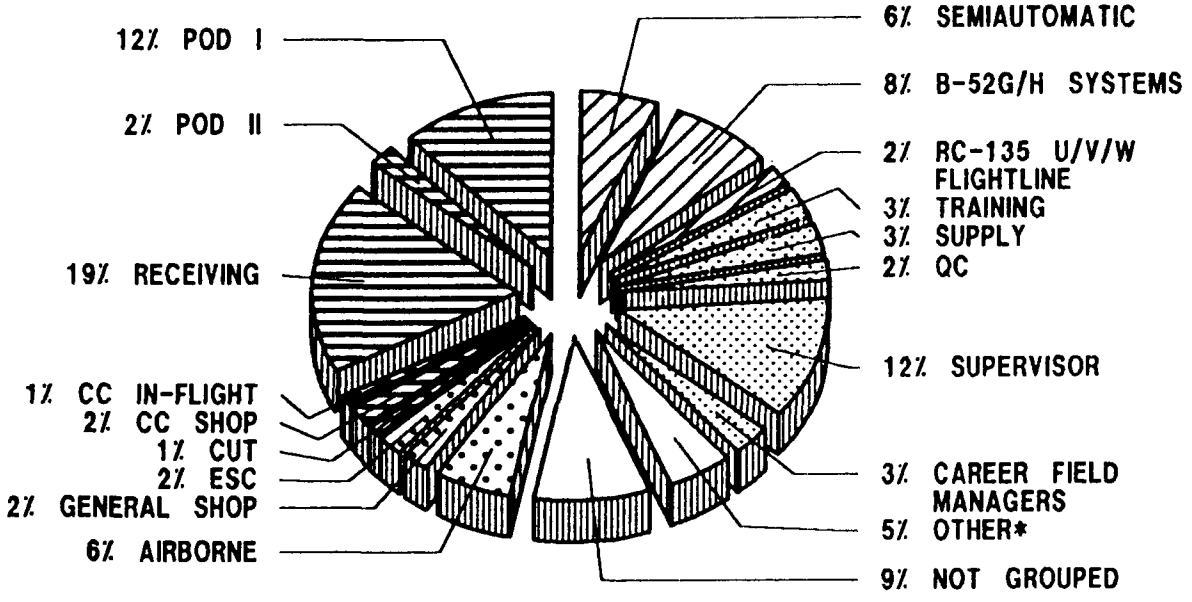
XXVIII. QUALITY CONTROL CLUSTER (STG102, N=39)

XXIX. SUPERVISION CLUSTER (STG137, N=274)

XXX. CAREER FIELD MANAGERS CLUSTER (STG081, N=61)

Ninety-one percent of the survey respondents are represented in the above job groups. The remaining 9 percent performed jobs that did not group with any of the defined jobs. Brief descriptions of each cluster are presented below. In addition, Table 3 provides selected background information across these jobs, while Appendix A lists common tasks performed by incumbents in these groups.

AFSC 456X1A/B CAREER LADDER STRUCTURE



* Includes 13 small jobs from all MAJCOM and Support groups

Figure 1

▤	TAF (TAC, USAFE, PACAF)
▨	SAC
⁘	ESC
▩	SUPPORT

TABLE 3

SELECTED BACKGROUND DATA FOR CAREER LADDER JOBS (TAF)

	POD I SYSTEMS CLUSTER (STG262)	AN/ALQ-188 POD IJT (STG251)	POD II SYSTEMS CLUSTER (STG046)	RECEIVING SYSTEMS CLUSTER (STG291)	AN/ALE-40 DISPENSING CLUSTER (STG092)	CC [illegible] IGHT CLUSTER (STG052)	CC SHOP IJT (STG480)
NUMBER IN GROUP	265	13	41	406	20	25	38
PERCENT OF SAMPLE	12%	-	2%	19%	1%	1%	2%
PERCENT IN CONUS	57%	92%	56%	58%	55%	80%	71%
DAFSC DISTRIBUTION (PERCENT):							
45631A	0%	0%	0%	6%	0%	0%	0%
45651A	3%	8%	0%	13%	5%	16%	0%
45631B	19%	8%	17%	17%	35%	0%	16%
45651B	73%	85%	71%	55%	55%	60%	76%
45671	5%	0%	12%	9%	5%	24%	8%
PREDOMINANT PAYGRADES	E-4/5	E-4/5	E-4/5	E-4/5	E-4	E-5	E-4/5
AVERAGE TICF (MOS)	69	74	85	75	59	103	78
AVERAGE TAFMS (MOS)	80	75	98	86	69	115	87
PERCENT IN 1ST ENL	29%	31%	12%	28%	40%	4%	24%
AVERAGE NUMBER OF TASKS PERFORMED	93	104	41	116	56	45	105
AVERAGE NUMBER PERSONS SUPERVISED	1	1	1	2	1	1	1

- Less than 1 percent

TABLE 3 (CONTINUED)

SELECTED BACKGROUND DATA FOR CAREER LADDER JOBS (TAF)

	AN/ALQ-125 TEREC IJT (STG347)	CUT CLUSTER (STG108)	TAF JOB CONTROL IJT (STG621)
NUMBER IN GROUP	7	28	6
PERCENT OF SAMPLE	-	1%	-
PERCENT IN CONUS	29%	71%	50%
DAFSC DISTRIBUTION (PERCENT):			
45631A	14%	4%	0%
45651A	14%	14%	33%
45631B	29%	29%	0%
45651B	43%	50%	33%
45671	0%	4%	33%
PREDOMINANT PAYGRADES	E-4	E-4	E-5
AVERAGE TICF (MOS)	48	65	98
AVERAGE TAFMS (MOS)	48	75	154
PERCENT IN 1ST ENL	72%	29%	0%
AVERAGE NUMBER OF TASKS PERFORMED	95	43	11
AVERAGE NUMBER PERSONS SUPERVISED	-	-	-

- Less than 1 percent

TABLE 3 (CONTINUED)

SELECTED BACKGROUND DATA FOR CAREER LADDER JOBS (SAC)

	SEMIAUTO SYSTEMS CLUSTER (STG264)	B-52G/H SYSTEMS CLUSTER (STG370)	SYSTEM-27 CLUSTER (STG595)	IN-FLIGHT RC-135 IJT (STG325)	FLIGHTLINE RC-135 CLUSTER (STG522)	FLIGHTLINE CONTROL IJT (STG364)	MAINT ANALYSIS IJT (STG299)
NUMBER IN GROUP	126	183	16	7	37	7	5
PERCENT OF SAMPLE	6%	8%	-	-	2%	-	-
PERCENT IN CONUS	95%	96%	88%	100%	59%	71%	80%
DAFSC DISTRIBUTION (PERCENT):							
45631A	39%	40%	31%	14%	19%	0%	0%
45651A	50%	43%	50%	71%	65%	0%	60%
45631B	0%	0%	0%	0%	0%	0%	0%
45651B	0%	0%	0%	0%	0%	0%	0%
45671	11%	16%	19%	14%	16%	100%	40%
PREDOMINANT PAYGRADES	E-4	E-4	E-5	E-5/6	E-4/5	E-7	E-5
AVERAGE TICF (MOS)	67	67	83	128	86	150	95
AVERAGE TAFMS (MOS)	80	78	94	131	93	198	130
PERCENT IN 1ST ENL	41%	44%	6%	0%	29%	0%	0%
AVERAGE NUMBER OF TASKS PERFORMED	97	116	119	73	136	43	10
AVERAGE NUMBER PERSONS SUPERVISED	1	2	1	0	2	9	0

- Less than 1 percent

TABLE 3 (CONTINUED)

SELECTED BACKGROUND DATA FOR CAREER LADDER JOBS (ESC)

	ESC SYSTEMS CLUSTER (STG290)	GENERAL SHOP CLUSTER (STG170)	AIRBORNE MAINT CLUSTER (STG191)	SUPPORT EQUIP IJT (STG635)	TGIF MAINT IJT (STG243)	ESC JOB CONTROL IJT (STG276)
NUMBER IN GROUP	36	37	128	11	7	7
PERCENT OF SAMPLE	2%	2%	6%	-	-	-
PERCENT IN CONUS	28%	76%	45%	45%	0%	14%
DAFSC DISTRIBUTION (PERCENT):						
45631A	14%	41%	13%	18%	14%	0%
45651A	78%	57%	76%	82%	57%	71%
45631B	0%	0%	0%	0%	0%	0%
45651B	3%	0%	2%	0%	0%	0%
45671	6%	3%	9%	0%	29%	29%
PREDOMINANT PAYGRADES	E-4/5	E-4	E-5	E-4	E-5	E-5
AVERAGE TICF (MOS)	80	69	80	68	87	97
AVERAGE TAFMS (MOS)	90	75	91	72	91	120
PERCENT IN 1ST ENL	26%	39%	10%	18%	14%	14%
AVERAGE NUMBER OF TASKS PERFORMED	85	48	135	56	11	45
AVERAGE NUMBER PERSONS SUPERVISED	2	-	1	-	1	2

- Less than 1 percent

TABLE 3 (CONTINUED)

SELECTED BACKGROUND DATA FOR CAREER LADDER JOBS (SUPPORT)

	TRAINING CLUSTER (STG100)	CRSWARE DVLPMT IJT (STG535)	SUPPLY CLUSTER (STG078)	TO MGMT IJT (STG163)	QC CLUSTER (STG102)	SUPV CLUSTER (STG137)	CF MGRS CLUSTER (STG081)
NUMBER IN GROUP	78	8	65	5	39	274	61
PERCENT OF SAMPLE	4%	-	3%	-	2%	13%	3%
PERCENT IN CONUS	87%	100%	68%	60%	59%	54%	79%
DAFSC DISTRIBUTION (PERCENT):							
45631A	0%	0%	5%	0%	0%	0%	0%
45651A	19%	0%	35%	80%	41%	11%	8%
45631B	0%	0%	0%	0%	0%	0%	0%
45651B	32%	75%	20%	0%	10%	17%	15%
45671	49%	25%	40%	20%	49%	72%	77%
PREDOMINANT PAYGRADES	E-5/6	E-5	E-5	E-5	E-5	E-6	E-6
AVERAGE TICF (MOS)	124	107	100	103	115	133	171
AVERAGE TAFMS (MOS)	132	113	121	134	131	166	189
PERCENT IN 1ST ENL	0%	0%	9%	0%	0%	1%	0%
AVERAGE NUMBER OF TASKS PERFORMED	66	8	51	14	58	130	34
AVERAGE NUMBER PERSONS SUPERVISED	2	0	2	0	1	8	1

- Less than 1 percent

Descriptions of Career Ladder Jobs

I. POD SYSTEMS MAINTENANCE I CLUSTER (STG262, N=265). This is the first of three Pod System-related jobs. The 265 airmen found in this cluster represent 12 percent of the total survey sample. They primarily perform EW general flightline or shop maintenance on F-16A/B aircraft, with emphasis on specific pod systems. Specifically, members of this job perform on either the AN/ALQ-131, AN/ALQ-119, AN/ALQ-184, or quick reaction capability (QRC) Pod Systems. Test equipment common to this job include blower assemblies, pressure gauges, and interface test sets. Several pieces of common support equipment were also identified to include AN/ALM-126C, AN/ALM-186A, AN/ALN-187, AN/ALM-188, and MU-677. On the average, members report performing 93 tasks. Representative tasks include:

Perform soldering tasks
Safety wire units
Inspect coaxial cables
Align AN/ALQ-131 pod system LRUs
Remove or install AN/ALQ-119 pod system LRU subassemblies or components
Perform minimum performance checks on AN/ALQ-184 pod system LRUs
Assemble or disassemble QRC pod system LRUs

Ninety-two percent of the personnel hold the "B" shred designation, with the majority of the members located in TAC. Comprised mostly of 5-skill level members, these incumbents average over 6 1/2 years of total active federal military service (TAFMS) and predominantly hold the rank of E-4 or E-5.

II. AN/ALQ-188 POD SYSTEM MAINTENANCE IJT (STG251, N=13). The 13 airmen in this independent job type represent less than 1 percent of the total survey sample. Similar to the previous cluster, members in this job perform EW general flightline or shop maintenance, but primarily on F-4C/D/E aircraft. Also, a large percentage of their time is concentrated on performing maintenance on pod systems, specifically the AN/ALQ-188 pod system. Examples of test equipment identified as common to this job include interface test sets, logic state analyzers, variacs, and wattmeters. Support equipment used include AN/ALM-14, AN/ALM-58, AN/ALM-177B, AN/ALM-184, AN/APM-427, and AN/GLM-10. Of the average 104 tasks performed by these incumbents, typical tasks include:

Inspect coaxial cables
Perform soldering tasks
Perform visual inspection of antennas
Remove or install nosecones or tailcones on pod systems
Isolate malfunctioning AN/ALQ-188 pod systems on aircraft

Perform preflight or postflight operational checks on AN/ALQ-188 pod systems
Align AN/ALQ-188 pod systems LRUs
Visually inspect AN/ALQ-188 pod system LRUs

Ninety-three percent of the members in this IJT hold the "B" shred designator, with the majority of members located in TAC. Also, 92 percent of these members are located in the Continental United States (CONUS). This IJT is comprised mostly of 5-skill level personnel. They primarily hold the rank of E-4 and E-5, with an average TAFMS of over 6 years.

III. POD SYSTEMS MAINTENANCE II CLUSTER (STG046, N=41). The 41 members of this cluster represent 2 percent of the total survey sample and the last of the three pod-related jobs. These airmen perform tasks similar to members in the previous two jobs. The distinction of this job is these personnel are considered the pod system experts and spend a larger percentage of their time maintaining pod systems. Members in this cluster maintain one of three pod systems: AN/ALQ-131, AN/ALQ-119, and QRC pod systems. Pressure gauges were the only piece of test equipment identified as unique to this job. Commonly used support equipment included AN/ALM-126C, AN/ALM-179, AN/ALM-186A, AN/ALM-187, and AN/ALM-188. Representative tasks of the average 41 tasks performed by this group include:

Safety wire units
Program electronic warfare systems
Align AN/ALQ-131 pod system LRUs
Remove or install AN/ALQ-131 pod system LRU subassemblies or components
Visually inspect AN/ALQ-119 pod system LRUs
Remove or install AN/ALQ-119 pod system LRU subassemblies or components
Isolate malfunctioning QRC pod system LRU subassemblies or components
Perform minimum performance checks on QRC receiving system LRUs

Eighty-eight percent of the members in this cluster hold a "B" shred designator. Slightly over half are located in the CONUS, with members representing TAC, PACAF, and USAFE. Over 70 percent hold a 5-skill level, and the primary paygrades are E-4 and E-5. Personnel in this job have an average TAFMS of over 8 years.

IV. RECEIVING SYSTEMS MAINTENANCE CLUSTER (STG291, N=406). These 406 airmen form the largest group, representing 19 percent of the total survey sample. All members within this group perform EW general flightline or shop maintenance. However, certain members also maintain the different receiving systems. Specific systems maintained within this cluster include the AN/ALE-40 dispensing system, AN/ALR-46/46A receiving system, AN/APR-47 receiving system, and AN/ALR-69 receiving system. Receiving systems maintained on

MC-130E aircraft were also identified within this cluster, as well as MC-130E shop supervisors. Finally, one large group, in conjunction with maintaining receiving systems, specialized in cross utilization training (CUT) tasks, while another smaller group concentrated on supervising support equipment tasks. Test equipment common to this job include standing wave ratio meters and time domain reflectometers. Several pieces of support equipment are common to this job. Examples include AN/ALM-191, AN/APM-379, AN/APM-380, AN/APM-427, AN/APR-38, and HP-8328A. On the average, members report performing 116 tasks. Representative tasks include:

Inspect coaxial cables
Remove or install coaxial cable connectors
Perform phase inspection on aircraft
Isolate malfunctioning AN/ALE-40 dispensing system LRUs on aircraft
Isolate malfunctioning AN/ALR-46/46A receiving system LRUs on aircraft
Align AN/ALR-46/46A receiving system LRUs
Visually inspect AN/APR-47 receiving system LRUs
Perform minimum performance checks on AN/APR-47 receiving system LRUs
Align AN/ALR-69 receiving system LRUs
Remove or install AN/ALR-69 receiving system LRU subassemblies or components
Isolate malfunctioning AN/ALR-69 receiving system LRUs on aircraft
Isolate malfunctioning AN/ALE-27 dispensing system LRUs on aircraft
Develop work methods or procedures
Apply power to aircraft
Walk wings or tails during aircraft towing operations
Program programmable read only memory programs
Perform diagnostic self-tests on computers

Seventy-two percent of the members in this cluster hold a "B" shred designation, with 42 percent assigned overseas. Members, representing TAC, USAFE, and MAC, average just over 7 years of TAFMS. Incumbents primarily hold the rank of E-4 and E-5, and 68 percent are 5-skill level personnel.

V. AN/ALE-40 DISPENSING SYSTEMS MAINTENANCE CLUSTER (STG092, N=20). The 20 airmen comprising this job represent 1 percent of the total survey sample. One of the primary missions of these members is to maintain the AN/ALE-40 dispensing system. Approximately 13 percent of their relative job time is spent maintaining dispensing systems. Other systems maintained, in conjunction with the AN/ALE-40 dispensing systems, include the AN/ALR-46/46A, AN/ALR-47, and AN/ALR-69 receiving systems. Examples of test equipment common to this job include boresight equipment, time domain reflectometers, and

variable delay lines. Several pieces of support equipment are common to this job. Examples include the HP-8328A transmission line set, digital subsystem test sets, and radio frequency test sets. Of the average 56 tasks performed by these incumbents, typical tasks include:

Align AN/ALE-40 dispensing system LRUs
Perform minimum performance checks on AN/ALE-40 dispensing system LRUs
Remove or install AN/ALE-40 dispensing system LRU subassemblies or components
Visually inspect AN/ALE-40 dispensing system LRUs
Align AN/ALR-46/46A receiving system LRUs
Align AN/ALR-47 receiving system LRUs
Align AN/ALR-69 receiving system LRUs

Ninety percent of the members in this cluster hold the "B" shred designation, with 45 percent assigned overseas. The majority of respondents are 5-skill levels and primarily hold the rank of E-4. These incumbents average nearly 6 years of TAFMS.

VI. COMPASS CALL PME MAINTENANCE (IN-FLIGHT) CLUSTER (STG052, N=25). These 25 airmen, representing 1 percent of the total survey sample, maintain Compass Call Prime Mission Equipment (PME) and related systems on the EC-130H aircraft. The primary duty of these members involves EW general flightline or airborne maintenance. Along with the technical duties associated with this job, one small group identified within this cluster perform training tasks, such as administering tests, counseling trainees on training progress, and evaluating proficiency training. Support equipment used by members in this cluster include antenna systems, computerized diagnostic test equipment, data analysis consoles, and maintenance consoles. Overall, an average of 45 tasks are performed by these job members. Common tasks include:

Analyze in-flight malfunctions
Perform in-flight checkouts of electronic equipment
Perform in-flight maintenance of electronic equipment
Isolate malfunctioning Compass Call PME on aircraft
Perform preflight operational checks on Compass Call PME
Evaluate maintenance work of in-flight crews

Sixty percent of the personnel in this cluster are assigned to TAC and are DAFSC 45651B. Incumbents average slightly over 9 1/2 years TAFMS and are primarily in paygrade E-5. Only 20 percent of the members in this job are located overseas.

VII. COMPASS CALL PME MAINTENANCE (SHOP) IJT (STG480, N=38). These 38 airmen, representing 2 percent of the total survey sample, also maintain Compass Call PME and related systems on the EC-130H aircraft. However, the primary duty of these members involves EW general shop maintenance. Several

pieces of test equipment are common to this job. Examples include audio oscillators, network state analyzers, variacs, and wavemeters. Commonly used support equipment include antenna systems and computerized diagnostic test equipment. Overall, an average of 105 tasks are performed by these job members. Common tasks include:

Isolate malfunctioning Compass Call PME on aircraft
Remove or install Compass Call PME receiving system LRU subassemblies or components
Align Compass Call PME transmitting system LRUs
Remove or install Compass Call PME transmitting system LRU subassemblies or components
Change fuses or circuit breakers

Ninety-two percent of the personnel in this IJT hold the "B" shred designator, with 76 percent assigned to TAC. The majority of members (76 percent) are 5-skill levels, average over 7 years of TAFMS, and are predominantly in paygrades E-4 and E-5. Over 70 percent are located in the CONUS.

VIII. AN/ALQ-125 TEREC SYSTEM MAINTENANCE IJT (STG347, N=7). This IJT contains seven airmen and represents one of the smallest jobs identified in the EW System specialty. This job is characterized by the performance of AN/ALQ-125 tactical electronic reconnaissance (TEREC) systems maintenance on RF-4C aircraft. Test equipment common to this job include blower assemblies, degaussers, logic state analyzers, vector voltmeters, and wattmeters. Examples of support equipment used in this job include AN/ALM-147, AN/PSM-27, electronic signal measurement console, processor test station, and standard memory load verifier. These airmen perform an average of 95 tasks. Typical tasks include:

Interconnect test equipment with LRUs
Program electronic warfare systems
Clean tape heads
Perform preflight or postflight operational checks on AN/ALQ-125 TEREC systems
Isolate malfunctioning AN/ALQ-125 TEREC system LRUs on aircraft
Remove or install AN/ALQ-125 TEREC system LRU subassemblies or components

Seventy-two percent of the personnel in this IJT hold a "B" shred designator, with 71 percent located overseas. The majority of members (57 percent) are 5-skill levels, average 4 years of TAFMS, and primarily hold the rank of E-4.

IX. CROSS UTILIZATION TRAINING CLUSTER (STG108, N=28). The 28 airmen in this job represent 1 percent of the total survey sample. Members of this cluster perform tasks associated with CUT. In conjunction with performing CUT duties, members were also identified as maintaining one of four systems: general shop systems, A-10A aircraft systems, F-4G aircraft systems, and RF-4C aircraft systems. Time domain reflectometers are the only piece of test equipment identified as unique to this job. Support equipment common to this job includes AN/ALM-177B and AN/ALM-427. These airmen perform an average of 43 tasks. Representative tasks include:

Remove or install aircraft access panels
Operate aerospace ground equipment (AGE), such as power units, heaters, light carts, or lifts
Apply power to aircraft
Position nonpower or powered AGE to aircraft
Inventory consolidated tool kits (CTK)
Visually inspect AN/ALE-40 dispensing system LRUs
Upload or download electronic warfare pods using MJ-1 or MJ-4 jammers or hydraulic stands
Perform preflight operational checks on AN/ALR-46/46A receiving systems

Seventy-nine percent of personnel in this cluster hold a "B" shred designation, with 71 percent located in CONUS. With an average over 6 years TAFMS, 64 percent of these job members are 5-skill level with a predominant paygrade of E-4.

X. TAF JOB CONTROL IJT (STG621, N=6). This small IJT is represented by six airmen. With an average of slightly under 13 years of TAFMS, this group represents the most senior level of "B" shred jobs. Members of this job are responsible for coordinating flightline or shop maintenance activities with maintenance offices or other sections and agencies. Nearly half their relative job time is spent organizing and planning. Of the average 11 tasks performed by these incumbents, common tasks include:

Coordinate flightline or shop maintenance activities with maintenance offices
Coordinate work activities with other sections or agencies
Operate general office equipment, such as typewriters or small computers
Participate in meetings, such as staff meetings, briefings, conferences, or workshops
Operate Core Automated Maintenance System (CAMS)

XI. B-52G/H SEMIAUTOMATIC SYSTEMS MAINTENANCE CLUSTER (STG264, N=126). This group of 126 airmen represent 6 percent of the total survey sample. They primarily perform EW general flightline or shop maintenance on B-52G/H aircraft, with emphasis on specific semiautomatic systems. Specifically, members of this job maintain either the AN/ALQ-153, AN/ALQ-155, or AN/ALQ-172 semiautomatic systems. In conjunction with maintaining semiautomatic systems, two other systems maintained by specialized groups of individuals include the AN/ALE-20 and AN/ALE-24 dispensing systems and AN/ALT-32 transmitting systems. Several pieces of test equipment are common to this job. Examples include ammeters, crystal diode detectors, punch tape readers, and radar simulators. Examples of support equipment include AN/ALM-16, AN/ALM-99, HP-8328A, and T-1093. Of the average 97 tasks performed by these incumbents, representative tasks include:

Practice electrostatic discharge (ESD) procedures
Interconnect test equipment with LRUs
Remove or install printed circuit board components
Align AN/ALQ-153 semiautomatic system LRUs
Isolate malfunctioning AN/ALQ-153 semiautomatic system LRU subassemblies or components
Align AN/ALQ-155 semiautomatic system LRUs
Perform minimum performance checks on AN/ALQ-155 semiautomatic system LRUs
Align AN/ALQ-172 semiautomatic system LRUs
Perform minimum performance checks on AN/ALQ-172 semiautomatic system LRUs
Isolate malfunctioning AN/ALE-20 dispensing system LRU subassemblies or components
Align AN/ALT-32 transmitting system LRUs

Eighty-nine percent of the personnel in this cluster hold the "A" shred designator, with 98 percent of the members located in SAC. Comprised mostly of 5-skill level members, these incumbents average slightly over 6 1/2 years of TAFMS and predominantly hold the rank of E-4.

XII. B-52G/H GENERAL SYSTEMS MAINTENANCE CLUSTER (STG370, N=183). These 183 airmen, forming one of the larger jobs, represent 8 percent of the total survey sample. They primarily perform EW general flightline, shop, or airborne maintenance on B-52G/H aircraft. Technicians in this cluster perform preflight operational checks, flightline inspections, or act as shop supervisors. Test equipment common to this job include pressure gauges and radar simulators. Examples of common support equipment include AN/ALM-472, AN/ASM-660, and AN/USM-464. Representative tasks of the average 116 tasks performed by this group include:

Upload or download chaff magazines on or off aircraft
Isolate malfunctioning AN/ALR-20A receiving system LRUs on aircraft

Perform preflight operational checks on AN/ALR-20A receiving systems
Visually inspect AN/ALR-46/46A receiving system LRUs
Inspect personnel for compliance with military standards

Eighty-three percent of the members in this cluster hold an "A" shred designator. Over 95 percent of the personnel are located in the CONUS, with 100 percent of the members assigned to SAC. Approximately 40 percent hold a 3-skill level, and 43 percent hold a 5-skill level. The primary paygrade is E-4. Personnel in this job have an average TAFMS of 6 1/2 years.

XIII. SYSTEM 27 MAINTENANCE CLUSTER (STG595, N=16). The 16 airmen comprising this job represent less than 1 percent of the total survey sample. The primary mission of these members is to maintain System 27 on the TR-1 and U-2 aircraft. One specialized group within this cluster also maintains System 20 Receiving systems in conjunction with System 27. Examples of test equipment common to this job include audio oscillators, sweep oscillators, tape system calibrators, and universal counters. Support equipment common to this job include ground playback station recorders, recorder control units, and signal data distribution units. Of the average 119 tasks performed by these incumbents, representative tasks include:

Pressurize equipment
Perform preflight or postflight operational checks on system 27
Visually inspect "C" recorders
Remove or install system 27 LRUs
Visually inspect system 27 LRUs
Align system 20 receiving system LRUs
Isolate malfunctioning system 20 receiving system LRU subassemblies or components

Eighty-one percent of the members in this cluster hold the "A" shred designation, with 88 percent located in CONUS. The majority of respondents are 5-skill levels and primarily hold the rank of E-5. These incumbents average slightly under 8 years of TAFMS.

XIV. IN-FLIGHT MAINTENANCE (RC-135U/V/W) IJT (STG325, N=7). This small group of seven airmen perform in-flight maintenance on RC-135U/V/W aircraft. The primary duty of these members involves isolating malfunctions within EW systems on the aircraft. Test equipment used by members in this cluster include ammeters, microwave amplifiers, punch tape readers, and sweep oscillators. Support equipment common to this job include electronic signal measurement consoles and maintenance consoles. Overall, an average of 73 tasks are performed by these job members. Typical tasks include:

Analyze in-flight malfunctions
Perform in-flight checkout of electronic equipment
Isolate malfunctioning AN/USH-24 recording system LRUs on aircraft
Isolate malfunctioning WJ-1740 receiving system LRUs on aircraft

Eighty-five percent of the personnel in this IJT hold an "A" shred designation, with 100 percent both assigned to SAC and located in the CONUS. Incumbents hold the 5-skill level, average slightly under 11 years TAFMS, and are primarily in paygrades E-5 and E-6.

XV. FLIGHTLINE MAINTENANCE (RC-135U/V/W) CLUSTER (STG522, N=37). These 37 airmen, representing 2 percent of the total survey sample, also perform maintenance on RC-135U/V/W aircraft. However, the primary duty of these members involves flightline maintenance. Two jobs identified within this cluster involve RC-135U/V/W aircraft maintenance but concentrate on specific systems: the 10-HIGH EW system and QRC systems. Pieces of test equipment common to this job include ammeters, microwave amplifiers, and wattmeters. The only unique support equipment identified is the electronic signal measurement console. These airmen perform an average of 136 tasks, substantially more than most of the other job groups. Typical tasks include:

Remove or install coaxial cable connectors
Brief or debrief flight crews
Perform minimum performance checks on WJ-1740 receiving system LRUs
Remove or install WJ-1740 receiving system LRU subassemblies or components
Perform minimum performance checks on 10-HIGH electronic warfare system
Isolate malfunctioning QRC system LRUs

Eighty-four percent of the personnel in this cluster hold the "A" shred designator, with 100 percent assigned to SAC. The majority of members (65 percent) are 5-skill levels, average over 7 1/2 years of TAFMS, and are predominantly in paygrades E-4 and E-5. Nearly 60 percent are located in the CONUS.

XVI. FLIGHTLINE JOB CONTROL IJT (STG364, N=7). This small IJT represents the most senior level of "A" shred jobs, with all members holding a 7-skill level, in paygrade E-7, and averaging 16 1/2 years TAFMS. Members of this job are responsible for coordinating flightline or shop maintenance activities with maintenance offices or other sections and agencies. Nearly half of their relative job time is spent organizing and planning, and directing and evaluating. Of the average 43 tasks performed by these incumbents, common tasks include:

Coordinate flightline or shop maintenance activities with maintenance offices
Coordinate work activities with other sections or agencies
Determine work priorities
Direct flightline maintenance
Participate in meetings, such as staff meetings, briefings, conferences, or workshops
Review flight schedules

XVII. MAINTENANCE ANALYSIS IJT (STG299, N=5). This IJT contains five individuals who indicated their work area to be "Maintenance Analysis." This job is characterized by the performance of administration functions. Airmen in this job spend over 50 percent of their relative job time performing administration duties. Members in this IJT average slightly under 11 years of TAFMS, primarily hold the rank of E-5, and are in DAFSC 45651A. These airmen perform an average of 10 tasks. Typical tasks include:

Operate Core Automated Maintenance Systems (CAMS)
Operate general office equipment, such as typewriters or small computers
Compile information for reports or staff studies
Review maintenance data collection forms
Initiate AF Forms 2422 (Maintenance Analysis Referral)

XVIII. ESC MAINTENANCE CLUSTER (STG290, N=36). This group of 36 airmen, representing 2 percent of the total survey sample, perform EW general airborne or shop maintenance. Members in this job are primarily responsible for maintaining systems on either the U-2 and TR-1 or RC-135 aircraft. Several pieces of test equipment are common to this job. Examples include antenna position fixtures, breakout boxes, crystal diode detectors, dummy loads, and X-Y plotters and recorders. Of the average 85 tasks performed by these incumbents, representative tasks include:

Remove or install coaxial cable connectors
Secure classified property
Perform soldering tasks
Remove or install mounting brackets or fixtures
Perform phase inspections on aircraft
Inspect test bench mockups

Eighty-three percent of the members in this cluster are assigned to ESC. They predominantly hold a 5-skill level, are in paygrades E-4 and E-5, and average 7 1/2 years of TAFMS.

XIX. GENERAL SHOP MAINTENANCE CLUSTER (STG170, N=37). The 37 airmen in this job represent 2 percent of the total survey sample. Members of this cluster perform tasks associated with general shop maintenance in support of RC-135U/V/W aircraft. Three specific areas of shop maintenance identified in

this cluster are support equipment, test bench mockups, and ground maintenance. Several pieces of test equipment were identified as common to this job. Examples include decade boxes, modulators, noise figure meters, and transistor testers. Support equipment common to this job include ATE-100 and VTE-200 tape evaluators, and K-80 tape degaussers. These airmen perform an average of 48 tasks. Representative tasks include:

Remove or install light bulbs
Remove or install minor hardware, such as latches, screws, or hinges
Practice electrostatic discharge (ESD) procedures
Perform operational checks on peripheral computer terminal keyboards
Inspect test bench mockups
Recertify magnetic tapes
Clean tape heads

Personnel in this cluster are assigned to ESC and SAC, with the majority of members in ESC. Though the majority (57 percent) hold a 5-skill level, a significant percentage (41 percent) are 3-skill level. Their predominant paygrade is E-4 with an average TAFMS of over 6 years. Approximately 76 percent are located in CONUS.

XX. AIRBORNE MAINTENANCE CLUSTER (STG191, N=128). These 128 airmen form a large group, representing 6 percent of the total survey sample. All members within this group perform airborne maintenance in support of RC-135U/V/W aircraft. Specific systems maintained within this cluster include support equipment, semiautomatic systems, AN/USH-24 recording systems, ES-142/142A receiving systems and Comfy Levi systems. The Comfy Levi primarily supports EC- and C-130E/H aircraft. Finally, one large group, in conjunction with performing airborne maintenance, act as shift supervisors. Several pieces of test equipment are common to this job including microwave amplifiers, noise figure meters, tape system calibrators, and universal counters. Several pieces of support equipment are also common to this job. Examples include digital subsystem test sets, ground playback station recorders, and recorder control units. These airmen perform an average of 135 tasks, substantially more than most of the other job groups. Typical tasks include:

Perform soldering tasks
Remove or install magnetic tapes
Inspect coaxial cables
Clean air filters
Isolate malfunctions within digital display systems
Isolate malfunctions within digital-to-analog converters
Align AN/ALQ-153 semiautomatic system LRUs
Align AN/ALQ-172 semiautomatic system LRUs
Visually inspect AN/USH-24 recording system LRUs

Perform preflight or postflight operational checks on AN/USH-24 recording systems
Remove or install ES-142/142A receiving system LRUs
Visually inspect ES-142/142A receiving system LRUs
Perform preflight or postflight operational checks on Senior Scout collection system
Isolate malfunctioning SSRS-652B airborne receiving systems (Comfy Levi) on aircraft
Counsel subordinates on personal or military matters

Eighty-seven percent of the personnel are assigned to ESC, with the majority (55 percent) of the members located overseas. Comprised mostly of 5-skill level members, these incumbents average slightly over 7 1/2 years of TAFMS and predominantly hold the rank of E-5.

XXI. SUPPORT EQUIPMENT MAINTENANCE IJT (STG635, N=11). These 11 airmen in this IJT spend over a third of their relative job time maintaining EW support equipment. Test equipment common to this job include pressure gauges, time domain reflectometers, and universal counters. Examples of common support equipment include data analysis consoles, ground playback station recorders, and recorder control units. On the average, these members perform 56 tasks. Tasks typical to the job are:

Perform operational checks on computer peripheral line printers
Perform operational checks on disc drives
Store diagnostic tapes or discs
Perform diagnostic self-tests on computers
Perform diagnostic tests on disc drives

All personnel in this IJT are assigned to ESC, with slightly over half assigned overseas. Most hold a 5-skill level, are primarily in paygrade E-4, and average 6 years of TAFMS.

XXII. TACTICAL GROUND INTERCEPT FACILITIES MAINTENANCE IJT (STG243, N=7). The seven people in this IJT are assigned to ESC and are stationed at Osan AB. Their work is involved with tactical ground intercept facilities (TGIF). Due to the classified nature of their job, only a broad generalized description of their tasks is provided. Typical tasks include:

Remove or install magnetic tapes
Remove or install light bulbs
Clean tape heads
Remove or install air filters
Secure classified property

The personnel in this IJT average slightly over 7 1/2 years TAFMS, with the majority of personnel holding a 5-skill level. Their predominant paygrade is E-5.

XXIII. ESC JOB CONTROL IJT (STG276, N=7). This IJT contains seven individuals who indicated their work area to be "Job Control." Similar to the TAF Job Control IJT and the SAC Flightline Job Control IJT, members of this job are responsible for coordinating flightline or shop maintenance activities with maintenance offices or other sections and agencies. Over half their relative job time is spent directing and implementing, and organizing and planning. With an average of 10 years of TAFMS, this group represents the most senior level of ESC jobs. Of the average 45 tasks performed by these incumbents, common tasks include:

Adjust daily maintenance plans to meet operational commitments
Coordinate flightline or whop maintenance activities with maintenance offices
Coordinate work activities with other sections or agencies
Determine work priorities
Participate in meetings, such as staff meetings, briefings, conferences, or workshops
Compile information for reports or staff studies

XXIV. TRAINING CLUSTER (STG100, N=78). This group of 78 individuals represents 4 percent of the total survey sample. These members are instructors at either the 3380 TCHTG, Keesler AFB MS, the 3480 TCHTG, Goodfellow AFB TX, or various field training detachments (FTD) located both CONUS and overseas. Training supervisors, also identified in this cluster, are responsible for the training instructors. Overall, these airmen perform an average of 66 tasks. Typical tasks include:

Administer tests
Administer student critiques
Prepare lesson plans
Score tests
Conduct resident classroom training
Maintain security forms on safes, records, or rooms
Coordinate work activities with other sections or agencies

Approximately 97 percent of the personnel involved in training are members of ATC, with 87 percent located on bases in the CONUS. Incumbents in this job have an average TAFMS of 11 years, are in paygrades E-5 and E-6, and 100 percent hold either a 5- or 7-skill level rating.

XXV. COURSEWARE DEVELOPMENT IJT (STG535, N=8). The eight airmen in this IJT perform tasks related to training. They develop course curricula, plans of instruction, or specialty training standards. As expected, these members are assigned to ATC and are located in the CONUS. Overall, an average of eight tasks are performed by these job members. Typical tasks include:

Develop course curricula, plans of instruction (POI), or specialty training standards (STS)
Operate general office equipment, such as typewriters or small computers
Develop performance tests

Seventy-five percent of the personnel in this IJT hold a 5-skill level. They average slightly under 9 1/2 years of TAFMS and predominantly are in paygrade E-5.

XXVI. SUPPLY CLUSTER (STG078, N=65). This group of 65 respondents, equating to 3 percent of the total survey sample, is responsible for the management and maintenance of supplies and equipment. Sixty-one percent of their relative job time is spent performing supply and general administration tasks. Slight variations of this job include members who specialize in monitoring repairs, training, or supervising supply technicians. Members perform an average of 51 tasks. Representative tasks include:

Complete AF Forms 2005 (Issue/Turn-In Request)
Initiate AF Forms 1297 (Temporary Issue Receipt)
Coordinate with base supply on obtaining parts
Research microfiche files for supply requisition data
Inventory equipment, tools, or supplies, other than aircraft equipment or consolidated tool kits (CTK)
Maintain files of classified material or messages
Review daily repair cycle asset management list
Administer tests
Determine work priorities

These personnel are distributed across MAJCOMs (28 percent in SAC, 17 percent in TAC, and 15 percent in ESC) with 68 percent in CONUS. Over half the members hold a 5-skill level with an average of 10 years TAFMS. These members are predominantly in paygrade E-5.

XXVII. TECHNICAL ORDER MANAGEMENT IJT (STG163, N=5). This small IJT of five airmen establish requirements for publications and technical orders. Approximately 66 percent of their relative job time is spent organizing and planning, and performing administrative functions. These members are assigned to AFSC and SAC. Overall, an average of 14 tasks are performed by these job members. Typical tasks include:

Establish requirements for publications or technical orders.
Review drafts of regulations, manuals, or other directives
Evaluate technical order improvement reports
Report technical order deficiencies

Eighty percent of the personnel in this IJT hold a 5-skill level. They average slightly over 11 years of TAFMS and predominantly are in paygrade E-5.

XXVIII. QUALITY CONTROL CLUSTER (STG102, N=39). The 39 members of this cluster indicated performance of quality control functions. These personnel are also distributed across MAJCOMs. Though some commands preferred different job titles (SAC prefers Quality Assurance), their primary activity involves evaluating and inspecting. Approximately one-third of their relative job time is spent performing evaluating and inspecting duties. Averaging slightly under 11 years of TAFMS, nearly half of these members are 7-skill levels, with a predominant paygrade of E-5. These members perform an average of 58 [illegible]'s. Representative tasks include:

Perform personnel performance quality control inspections
Evaluate completed maintenance
Evaluate personnel for compliance with performance standards
Evaluate quality control procedures
Evaluate aircraft inspection workcards
Perform visual inspection of antennas
Evaluate deficiency reports, such as material, quality, or warranty

XIX. SUPERVISION CLUSTER (STG137, N=274). These 274 members, equating to 13 percent of the total survey sample, perform the supervisory tasks in the career ladder. Supervising an average of eight people, these individuals are relatively senior with slightly over 13 1/2 years of TAFMS. Primarily 7-skill levels, their predominant paygrade is E-6. As expected, there are several types of supervisors ranging from shop, flightline, airborne, and shift supervisors to supply, resources, training, and supervisor managers. Approximately 67 percent of their relative job time is spent performing supervisory, administrative, and supply duties. Personnel in this job are distributed throughout the commands: 27 percent are in TAC, 22 percent are in ESC, and 18 percent are in SAC. Members of this cluster perform an average of 130 tasks. Tasks are typically nontechnical and include:

Evaluate training methods or techniques
Counsel subordinates on personal or military matters
Determine work priorities
Counsel subordinates on job progression or career development
Write EPRs
Write recommendations for awards or decorations

XXX. CAREER FIELD MANAGERS CLUSTER (STG081, N=61). The 61 members of this group represent the most senior level of personnel in the survey sample. The majority are in paygrade E-6, and 77 percent are qualified to the 7-skill level. With an average of over 15 1/2 years of TAFMS, these incumbents devote approximately 85 percent of their time performing supervisory, managerial, or administrative functions. Five different types of career field managers are identified in this cluster: publication requirements managers, CAMS managers, resources managers, briefers, and test and evaluation managers. Several general tasks, such as participate in meetings, operate general office equipment, and plan/prepare briefings, are performed by the members in this cluster. As a whole, they perform an average of 34 tasks. However, the different variations of this cluster also perform tasks specific to the areas being managed. Examples of these tasks are listed below:

Establish requirements for publications or technical orders
Direct maintenance of publications or technical orders files
Operate Core Automated Maintenance System
Conduct staff assistance visits
Determine work priorities
Draft budget requirements
Prepare agenda for staff meetings
Conduct briefings
Evaluate equipment modification or development data
Evaluate new electronic warfare systems under qualification test and evaluation (QT&E)

Comparison of Specialty Jobs

Analysis of the AFSC 456X1A/B career ladder structure indicates that the Electronic Warfare Systems specialty may be considered somewhat diverse. This was made evident by the clear identification of various systems maintained in MAJCOM-specific jobs. Ten jobs combined to provide a generalized technical picture of the systems maintained by the tactical commands, AFSC 456X1B. Seven jobs combined to provide a broad view of the systems maintained by Strategic Air Command. Finally, six jobs primarily performed by Electronic Security Command highlight the systems ESC maintains. Seven other jobs involved support tasks, such as training, supply, or supervisory and managerial tasks. These 30 jobs account for a total of 1,986 members or 91 percent of the survey sample.

Because of the diversity within the career ladder, driven by the various EW systems maintained by 456X1 personnel, few tasks are performed by the majority of career ladder personnel. Of the 1,054 tasks included in the job inventory, less then 20 tasks had greater than 50 percent of the respondents performing. The majority of these involved the performance of EW general flightline or shop maintenance (see Table 4). Of the 2,187 respondents, 1,456 (67 percent) are found in clusters or independent job types I through XXIII, jobs that are primarily technical and maintenance oriented. A comparison of the general EW maintenance tasks common to these groups found several of the same EW general flightline or shop maintenance tasks listed in Table 4.

TABLE 4

COMMON TASKS PERFORMED BY
GREATER THAN 50 PERCENT OF
AFSC 456X1A/B PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=2,187)
G317	Secure classified property	71
G281	Inspect coaxial cables	68
G314	Research technical order wiring or circuit diagrams	67
G288	Perform soldering tasks	66
G297	Remove or install coaxial cable connectors	64
F229	Complete AF Forms 2005 (Issue/Turn In Request)	63
G304	Remove or install light bulbs	63
G298	Remove or install coaxial cables	62
G315	Research technical orders to identify components or items of equipment	62
G283	Interconnect test equipment with LRU's	61
G306	Remove or install minor hardware, such as latches, screws, or hinges	61
G277	Change fuses or circuit breakers	59
G291	Perform visual inspection of antennas	59
G293	Practice electrostatic discharge (ESD) procedures	57
G303	Remove or install knobs or controls	57
G316	Safety wire units	57
G308	Remove or install multiconductor cable connectors	54
G289	Perform support equipment inspections	52
G323	Transport classified equipment	52

Therefore, the big distinguishing factor for the technical jobs is the specific systems maintained. The result then is several relatively small jobs, representing 1 or 2 percent of the survey sample, maintaining one of the numerous systems.

Of the five jobs representing greater than 2 percent of the survey sample, the two largest jobs are TAF specific clusters: IV. Receiving Systems Maintenance Cluster and I. Pod Systems Maintenance I Cluster. These jobs represent 19 and 12 percent of the survey sample, respectively. These jobs differ from the smaller jobs in that they contain members performing on systems (receiving or pod systems) that require similar skills, but still involve specialization, members performing primarily on one of the specific systems. This is noted in the variations within the Receiving Systems Maintenance cluster in which members perform on a specific receiving system, such as an AN/ALR-46/46A, AN/APR-47, or AN/ALR-69, or in the case of the Pod Systems Maintenance I cluster, a specific pod system, such as an AN/ALQ-131, AN/ALQ-119, or AN/ALQ-184. The other three larger jobs are also formed in this same fashion.

In summary, the career ladder structure indicates that members of the AFSC 456X1 career ladder perform system-specific tasks generally related to one of three command groups: TAF, SAC, or ESC. Each of the 30 jobs highlights different aspects of the specialty and combined present a clear picture of the Electronic Warfare Systems specialty.

Job Structure Comparison to Previous Surveys

The results of the specialty job analysis were compared to those of the last occupational survey report completed in May 1984. As mentioned previously, at the time of the last survey, AFSC 456X1A/B was coded AFSC 328X3 and did not have shred identifications.

Table 5 lists the major jobs identified in the 1991 survey and their equivalent jobs from the 1984 OSR. A review of the jobs performed by the current sample indicates that most of the 1991 job groups can be matched to similar jobs performed by Electronic Warfare Systems job groups identified in the 1984 report. Overall, 23 of the current 30 jobs have an equivalent counterpart in the previous study. Seven jobs from the current study which were not identified in the 1984 study include: CUT cluster, System-27 Maintenance cluster, Support Equipment Maintenance cluster, TGIF Maintenance IJT, Courseware Development IJT, Technical Order Management IJT, and Career Field Managers cluster. A significant amount of time was not spent performing these jobs in 1984 or they did not group together in such a way as to be defined as a job. These seven jobs represent less than 6 percent of the current sample. Minus these exceptions, the structure of the Electronic Warfare Systems specialty has remained basically the same.

TABLE 5

COMPARISON OF MAJOR JOBS BETWEEN SURVEYS

1991 SURVEY	1984 SURVEY
POD SYSTEMS MAINTENANCE I AN/ALQ-188 POD SYSTEM MAINTENANCE POD SYSTEMS MAINTENANCE II	POD MAINTENANCE PERSONNEL
RECEIVING SYSTEMS MAINTENANCE AN/ALE-40 DISPENSING SYSTEM MAINTENANCE AN/ALQ-125 TEREC SYSTEM MAINTENANCE TAF JOB CONTROL	TACTICAL EW MAINTENANCE PERSONNEL
COMPASS CALL PME MAINTENANCE (IN-FLIGHT) COMPASS CALL PME MAINTENANCE (SHOP)	COMPASS CALL PRIME MISSION EQUIPMENT PERSONNEL
B-52G/H SEMIAUTOMATIC SYSTEMS MAINTENANCE B-52G/H GENERAL SYSTEMS MAINTENANCE FLIGHTLINE JOB CONTROL (SAC)	EW FLIGHTLINE MAINTENANCE
IN-FLIGHT MAINTENANCE FLIGHTLINE MAINTENANCE AIRBORNE MAINTENANCE ESC JOB CONTROL	AIRBORNE MISSION SUPPORT PERSONNEL
ESC MAINTENANCE	STRATEGIC RECONNAISSANCE EW MAINTENANCE PERSONNEL
GENERAL SHOP MAINTENANCE	EW SHOP MAINTENANCE PERSONNEL
MAINTENANCE ANALYSIS	ADMINISTRATIVE SUPPORT PERSONNEL

TABLE 5 (CONTINUED)

COMPARISON OF MAJOR JOBS BETWEEN SURVEYS

1991 SURVEY	1984 SURVEY
TRAINING	TECHNICAL TRAINING INSTRUCTORS
SUPPLY	SUPPLY PERSONNEL
QUALITY CONTROL	QUALITY CONTROL INSPECTORS
SUPERVISOR	SUPERVISORS
CROSS UTILIZATION TRAINING SYSTEM 27 MAINTENANCE TGIF MAINTENANCE SUPPORT EQUIPMENT MAINTENANCE COURSEWARE DEVELOPMENT TECHNICAL ORDER MANAGEMENENT CAREER FIELD MANAGERS	NOT IDENTIFIED

ANALYSIS OF DAFSC GROUPS

In addition to the analysis of the career ladder structure, an examination of the jobs and tasks performed at each skill level is helpful in understanding the Electronic Warfare Systems specialty. The DAFSC analysis compares the skill levels to identify differences in task performance. This information may then be used to determine whether personnel are utilized in the manner specified by the specialty description (AFR 39-1) and may serve as a basis for considering changes to current utilization policies and training programs.

Comparison of the duty and task performance between DAFSCs 45631A/B and 45651A/B indicates that, even though there are some minor differences, the jobs they perform are essentially the same. Therefore, each will be discussed as a combined group in this report. Examples of tasks distinguishing between these airmen indicate that a larger percentage of 5-skill level personnel write EPRs, counsel subordinates on personal or military matters, counsel subordinates on job progression or career development, supervise Electronic Warfare Systems specialists (AFSC 45651), evaluate personnel for compliance with performance standards, conduct OJT, and coordinate work activities with other sections or agencies. The distribution of skill-level groups across specialty jobs is shown in Table 6, while Table 7 lists the relative time spent on each duty. Further discussion of these data is contained below.

Skill Level Descriptions

DAFSC 45631/51A. The 806 airmen in the "A" shred 3- and 5-skill level group (representing 37 percent of the 456X1 survey sample) perform an average of 96 tasks. These airmen are dispersed mainly among the B-52G/H General Systems Maintenance cluster (19 percent), B-52G/H Semiautomatic Systems Maintenance cluster (14 percent), and Airborne Maintenance cluster (14 percent, see Table 6). Approximately 23 percent of their job time is spent performing EW general flightline or shop maintenance functions (see Table 7).

DAFSC 45631/51B. The 838 airmen in the "B" shred 3- and 5-skill level group (representing 38 percent of the 456X1 survey sample) perform an average of 90 tasks. These airmen are dispersed mainly among the Receiving Systems Maintenance cluster (35 percent) and the Pod Systems Maintenance I cluster (29 percent, see Table 6). Approximately 25 percent of their job time is also spent performing EW general flightline or shop maintenance functions (see Table 7).

DAFSC 45631/51A and 45631/51B personnel perform many of the same tasks. Examples of common tasks likely to be performed by any 3- and 5- skill level personnel include: secure classified property, inspect coaxial cables, perform soldering tasks, research technical order wiring or circuit diagrams, and remove or install coaxial cable connectors. A more detailed list of these common tasks performed by journeyman-level airmen is presented in Table 8. These airmen also perform tasks unique to their shreds. Tasks which best distinguish the "A" 3- and 5-skill level personnel from the "B" 3- and 5-skill

TABLE 6

DISTRIBUTION OF 456X1A/B DAFSC GROUP MEMBERS ACROSS CAREER LADDER JOBS
(NUMBER AND PERCENT RESPONDING)

CAREER LADDER JOBS		DAFSC 45631/51A (N=806)		DAFSC 45631/51B (N=838)		DAFSC 45671 (N=543)	
		NBR	PCT	NBR	PCT	NBR	PCT
I.	POD SYSTEMS MAINTENANCE I CLUSTER (STG262, N=265)	8	1%	244	29%	13	2%
II.	AN/ALQ-188 POD SYSTEM MAINTENANCE IJT (STG251, N=13)	1	-	12	1%	0	-
III.	POD SYSTEMS MAINTENANCE II CLUSTER (STG046, N=41)	0	-	36	4%	5	1%
IV.	RECEIVING SYSTEMS MAINTENANCE CLUSTER (STG291, N=406)	77	10%	292	35%	37	7%
V.	AN/ALE-40 DISPENSING SYSTEMS MAINTENANCE CLUSTER (STG092, N=20)	1	-	18	2%	1	-
VI.	COMPASS CALL PME MAINTENANCE (IN-FLIGHT) CLUSTER (STG052, N=25)	4	-	15	2%	6	1%
VII.	COMPASS CALL PME MAINTENANCE (SHOP) IJT (STG480, N=38)	6	1%	29	3%	3	1%
VIII.	AN/ALQ-125 TEREC SYSTEM MAINTENANCE IJT (STG347, N=7)	2	-	5	1%	0	-
IX.	CROSS UTILIZATION TRAINING CLUSTER (STG108, N=28)	5	1%	22	3%	1	-
X.	TAF JOB CONTROL IJT (STG621, N=6)	2	-	2	-	2	-
XI.	B-52G/H SEMIAUTOMATIC SYSTEMS MAINTENANCE CLUSTER (STG264, N=126)	112	14%	0	-	14	3%
XII.	B-52G/H GENERAL SYSTEMS MAINTENANCE CLUSTER (STG370, N=183)	153	19%	0	-	29	5%
XIII.	SYSTEM 27 MAINTENANCE CLUSTER (STG595, N=16)	13	2%	0	-	3	1%
XIV.	IN-FLIGHT MAINTENANCE (RC-135U/V/W) IJT (STG325, N=7)	6	1%	0	-	1	-
XV.	FLIGHTLINE MAINTENANCE (RC-135U/V/W) CLUSTER (STG522, N=37)	31	4%	0	-	6	1%
XVI.	FLIGHTLINE JOB CONTROL IJT (STG364, N=7)	0	-	0	-	7	1%
XVII.	MAINTENANCE ANALYSIS IJT (STG299, N=5)	3	-	0	-	2	-
XVIII.	ESC MAINTENANCE CLUSTER (STG290, N=36)	33	4%	1	-	2	-
XIX.	GENERAL SHOP MAINTENANCE CLUSTER (STG170, N=37)	36	4%	0	-	1	-
XX.	AIRBORNE MAINTENANCE CLUSTER (STG191, N=128)	114	14%	3	-	11	2%
XXI.	SUPPORT EQUIPMENT MAINTENANCE IJT (STG635, N=11)	11	1%	0	-	0	-
XXII.	TGIF MAINTENANCE IJT (STG243, N=7)	5	1%	0	-	2	-
XXIII.	ESC JOB CONTROL IJT (STG276, N=7)	5	1%	0	-	2	-
XXIV.	TRAINING CLUSTER (STG100, N=78)	15	2%	25	3%	38	7%
XXV.	COURSEWARE DEVELOPMENT IJT (STG535, N=8)	0	-	6	1%	2	-
XXVI.	SUPPLY CLUSTER (STG078, N=65)	26	3%	13	2%	26	5%
XXVII.	TECHNICAL ORDER MANAGEMENT IJT (STG163, N=5)	4	-	0	-	1	-
XVIII.	QUALITY CONTROL CLUSTER (STG102, N=39)	16	2%	4	-	19	3%
XIX.	SUPERVISION CLUSTER (STG137, N=274)	30	4%	47	6%	197	36%
XXX.	CAREER FIELD MANAGERS CLUSTER (STG081, N=61)	5	1%	9	1%	47	9%
	NOT GROUPED (N=201)	81	10%	55	7%	65	12%
	TOTAL	806	100%	838	100%	543	97%

- Less than 1 percent

NOTE: Columns may not add to 100 percent due to rounding

TABLE 7

AVERAGE PERCENT TIME SPENT PERFORMING DUTIES BY 456X1
DAFSC GROUPS

DUTIES	DAFSC 45631A (N=233)	DAFSC 45651A (N=573)	DASFC 45631B (N=160)	DASFC 45651B (N=678)	DAFSC 45671 (N=543)
A ORGANIZING AND PLANNING	1	6	1	5	15
B DIRECTING AND IMPLEMENTING	1	5	1	4	12
C EVALUATING AND INSPECTING	1	5	1	4	14
D TRAINING	1	4	1	5	10
E PERFORMING ADMINISTRATIVE FUNCTIONS	5	8	5	8	9
F PERFORMING SUPPLY AND EQUIPMENT FUNCTIONS	8	9	7	10	10
G PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE	28	22	31	23	9
H PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR AIRBORNE MAINTENANCE	8	6	13	8	3
I PERFORMING ELECTRONIC WARFARE GENERAL SHOP MAINTENANCE	9	7	9	8	3
J PERFORMING PREFLIGHT OR POSTFLIGHT OPERATIONAL CHECKS ON ELECTRONIC WARFARE SYSTEMS	5	3	3	2	1
K ISOLATING MALFUNCTIONS WITHIN ELECTRONIC WARFARE SYSTEMS ON AIRCRAFT	6	4	3	2	2
L MAINTAINING RECEIVING SYSTEMS	4	3	4	3	2
M MAINTAINING TRANSMITTING SYSTEMS	3	1	-	1	1
N MAINTAINING DISPENSING SYSTEMS	4	2	3	2	1
O MAINTAINING POD SYSTEMS	-	-	6	5	1
P MAINTAINING SEMIAUTOMATIC SYSTEMS	7	3	-	1	1
Q MAINTAINING DIRECTION-FINDING SYSTEMS	1	1	-	-	-
R MAINTAINING RECORDING OR REPRODUCING SYSTEMS	1	1	-	-	-
S MAINTAINING SIGNAL ANALYZERS	-	-	-	-	-
T MAINTAINING ELECTRONIC RECONNAISSANCE SYSTEMS	1	1	-	-	-
U MAINTAINING ELECTRONIC WARFARE SUPPORT EQUIPMENT	4	4	2	2	2
V PERFORMING MOBILITY TASKS	1	1	3	3	1
W PERFORMING CROSS UTILIZATION TRAINING (CUT) FUNCTIONS	4	3	8	4	2

- Less than 1 percent

NOTE: Columns may not add to 100 percent due to rounding

TABLE 8

REPRESENTATIVE TASKS COMMONLY PERFORMED BY
DAFSC 45631A/B AND 45651A/B PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=1,644)
G317	Secure classified property	79
G281	Inspect coaxial cables	77
G288	Perform soldering tasks	77
G314	Research technical order wiring or circuit diagrams	75
G297	Remove or install coaxial cable connectors	74
G304	Remove or install light bulbs	72
G298	Remove or install coaxial cables	71
G306	Remove or install minor hardware, such as latches, screws, or hinges	71
G315	Research technical orders to identify components or items of equipment	69
G283	Interconnect test equipment with LRUs	69
F229	Complete AF Forms 2005 (Issue/Turn-In Request)	68
G277	Change fuses or circuit breakers	68
G316	Safety wire units	67
G291	Perform visual inspection of antennas	66
G303	Remove or install knobs or controls	66
G293	Practice electrostatic discharge (ESD) procedures	64
G308	Remove or install multiconductor cable connectors	63
G289	Perform support equipment inspections	59
G323	Transport classified equipment	58
G295	Program electronic warfare systems	56
G309	Remove or install multiconductor cables	55
E178	Annotate or complete AFTO Forms 349 (Maintenance Data Collection Record)	52
G286	Perform antenna checkouts	50
G324	Transport electronic warfare systems	50
G287	Perform phase inspections of electronic warfare equipment	50
E220	Operate Core Automated Maintenance System (CAMS)	50
F227	Attach or annotate equipment status labels or tags, such as DD Forms 1574 (Serviceable Tag-Materiel)	50
W1033	Operate aerospace ground equipment (AGE), such as power units, heaters, light carts, or lifts	48
F248	Inventory equipment, tools, or supplies, other than aircraft equipment or consolidated tool kits (CTK)	48
H334	Perform periodic inspections of electronic warfare equipment	47
W1025	Apply power to aircraft	46
H340	Remove or install aircraft access panels	46
W1028	Inventory consolidated tool kits (CTK)	44
I379	Remove or install printed circuit board components	43
E221	Operate general office equipment, such as typewriters or small computers	43

level are presented in Table 9. Examples of tasks with the greatest difference in members performing include "A" shred personnel loading or unloading chaff magazines, isolating malfunctioning AN/ALE-20 dispensing system LRUs on aircraft, and visually inspecting AN/ALQ-153 semiautomatic system LRUs. Tasks performed by "B" shred 3- and 5-skill level include operating overhead cranes, uploading or downloading electronic warfare pods using MJ-1 or MJ-4 jammers or hydraulic stands, and visually inspecting AN/ALE-40 dispensing system LRUs.

DAFSC 45671. The 543 7-skill level personnel (25 percent of the 456X1 survey sample) perform an average of 93 tasks. These airmen supervise an average of six people and spend 51 percent of their time on supervisory and managerial tasks (duties A through D). While 45 percent of the 7-skill level personnel are members of the Supervision cluster or Career Field Managers cluster, over 25 percent of these highly skilled airmen are also present in the more technically oriented jobs (see Table 6). Examples of tasks performed by this group include: counsel subordinates on personal or military matters, participate in meetings, such as staff meetings, briefings, conferences, or workshops, write EPRs, and determine work priorities. A more complete listing of characteristic tasks for these incumbents can be found in Table 10.

Tasks which best distinguish the 7-skill level personnel from their junior counterparts are presented in Table 11. As shown, tasks with a large difference in members performing include the senior-level NCOs supervise Electronic Warfare Systems Technicians (AFSC 45671), write recommendations for awards or decorations, schedule leaves or TDYs, and coordinate work activities with other sections or agencies. *The distinguishing* tasks, *on the other hand*, for junior-level personnel include perform soldering tasks, remove or install coaxial cable connectors, safety wire units, and change fuses or circuit breakers. As expected, the key difference lies in a greater emphasis on supervisory functions for 7-skill level airmen.

Summary

Career ladder progression within the 456X1 career ladder is typical of most ladders. As skill level increases, additional emphasis on supervisory and management responsibilities also increases. Both 3- and 5-skill level personnel spend the majority of their job time performing technically oriented tasks. Individuals possessing a 7-skill level concentrate their efforts on supervisory and managerial functions, with a substantial decrease in time spent performing tasks technical in nature.

ANALYSIS OF AFR 39-1 SPECIALTY DESCRIPTIONS

The results of the skill level and job structure analysis were compared with the AFR 39-1 Specialty Descriptions, dated 15 March 1989, for the Electronic Warfare Systems specialty. The descriptions in AFR 39-1 describe, in broad terms, the tasks and duties performed by members of the various skill-level groups of a career ladder.

TABLE 9

REPRESENTATIVE TASK DIFFERENCES BETWEEN
DAFSC 45631A/51A AND DAFSC 45631B/51B PERSONNEL
(PERCENT MEMBERS PERFORMING)

TASKS		DAFSC 45631/51A (N=806)	DAFSC 45631/51B (N=838)	DIFFERENCE
G284	Load or unload chaff magazines	34	10	24
K450	Isolate malfunctioning AN/ALE-20 dispensing system LRUs on aircraft	23	-	23
G275	Brief or debrief flight crews	45	23	22
N677	Visually inspect AN/ALE-20 dispensing system LRUs	22	-	22
P792	Visually inspect AN/ALQ-153 semiautomatic system LRUs	22	-	22
G294	Pressurize equipment	31	9	22
J389	Perform preflight operational checks on AN/ALE-20 dispensing systems	21	-	21
P794	Visually inspect AN/ALQ-155 semiautomatic system LRUs	21	-	21
K462	Isolate malfunctioning AN/ALQ-155 semiautomatic system LRUs on aircraft	21	-	21
H348	Upload or download chaff magazines on or off aircraft	28	8	20
G279	Degauss tape heads	24	4	20
K481	Isolate malfunctioning blanking systems on aircraft	24	4	20
J411	Perform preflight or postflight operational checks on AN/ALQ-155 semiautomatic systems	20	0	20
L588	Visually inspect AN/ALR-20A receiving system LRUs	20	-	20
N678	Visually inspect AN/ALE-24 dispensing system LRUs	20	-	20
N660	Isolate malfunctioning AN/ALE-40 dispensing system LRU subassemblies or components	6	29	-23
0698	Isolate malfunctioning AN/ALQ-131 pod system LRU subassemblies or components	0	23	-23
0705	Perform minimum performance checks on AN/ALQ-131 pod system LRUs	-	23	-23
0712	Remove or install AN/ALQ-131 pod system LRU subassemblies or components	-	23	-23
N655	Clean and lubricate AN/ALE-40 dispensing system LRUs	6	30	-24
N674	Remove or install AN/ALE-40 dispensing system LRU subassemblies or components	6	30	-24
K454	Isolate malfunctioning AN/ALE-40 dispensing system LRUs on aircraft	9	33	-24
E205	Initiate or complete automated Significant Historical Data records, such as AFTO Forms 95	10	35	-25
N667	Perform minimum performance checks on AN/ALE-40 dispensing system LRUs	6	31	-25
0719	Visually inspect AN/ALQ-131 pod system LRUs	-	26	-26
G316	Safety wire units	53	80	-27
N681	Visually inspect AN/ALE-40 dispensing system LRUs	8	37	-29
G295	Program electronic warfare systems	40	72	-32
H352	Upload or download electronic warfare pods using MJ-1 or MJ-4 jammers or hydraulic stands	8	42	-34
I373	Operate overhead cranes	7	47	-40

- Less than 1 percent

TABLE 10

REPRESENTATIVE TASKS PERFORMED BY
DAFSC 45671 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=543)
B42	Counsel subordinates on personal or military matters	70
A21	Participate in meetings, such as staff meetings, briefings, conferences, or workshops	69
C114	Write EPRs	69
A7	Determine work priorities	67
B41	Counsel subordinates on job progression or career development	65
E221	Operate general office equipment, such as typewriters or small computers	63
A4	Coordinate work activities with other sections or agencies	62
C115	Write recommendations for awards or decorations	57
C105	Inspect personnel for compliance with military standards	56
A35	Schedule work assignments and priorities	55
D126	Counsel trainees on training progress	55
C94	Evaluate personnel for compliance with performance standards	54
A17	Establish performance standards for subordinates	51
B69	Supervise Electronic Warfare Systems Specialist (AFSC 45651)	51
B62	Interpret policies, directives, or procedures for subordinates	50
F246	Initiate AF Forms 1297 (Temporary Issue Receipt)	50
G317	Secure classified property	50
A3	Coordinate flightline or shop maintenance activities with maintenance offices	49
C78	Evaluate completed maintenance	49
E220	Operate Core Automated Maintenance System (CAMS)	49
A27	Plan work assignments	48
B70	Supervise Electronic Warfare Systems Technicians (AFSC 45671)	48
F229	Complete AF Forms 2005 (Issue/Turn-In Request)	48
A20	Establish work schedules	47
A6	Determine requirement for space, equipment, or supplies	45
C112	Review maintenance data collection forms	41
F236	Coordinate with base supply on obtaining parts	41
E219	Maintain security forms on safes, records, or rooms	39
B52	Direct shop maintenance	38
A25	Plan or prepare briefings	35
A32	Review drafts of regulations, manuals, or other directives	35
B37	Adjust daily maintenance plans to meet operational commitments	34
B38	Compile information for reports or staff studies	33
B39	Conduct briefings	32
B47	Direct flightline maintenance	30
B71	Supervise military personnel with AFSC other than 456X1	22

TABLE 11

REPRESENTATIVE TASK DIFFERENCES BETWEEN
DAFSC 45631/51A/B AND DAFSC 45671 PERSONNEL
(PERCENT MEMBERS PERFORMING)

TASKS		DAFSC 45631/51A/B (N=1,644)	DAFSC 45671 (N=543)	DIFFERENCE
G288	Perform soldering tasks	77	35	42
G297	Remove or install coaxial cable connectors	74	34	40
G306	Remove or install minor hardware, such as latches, screws, or hinges	71	32	39
G316	Safety wire units	67	28	39
G277	Change fuses or circuit breakers	68	31	37
G298	Remove or install coaxial cables	71	34	37
G304	Remove or install light bulbs	72	35	37
G281	Inspect coaxial cables	77	41	36
G303	Remove or install knobs or controls	66	31	35
G308	Remove or install multiconductor cable connectors	63	29	34
G283	Interconnect test equipment with LRUs	69	37	32
G314	Research technical order wiring or circuit diagrams	75	43	32
G287	Perform phase inspections of electronic warfare equipment	50	19	31
G286	Perform antenna checkouts	50	20	30
G315	Research technical orders to identify components or items of equipment	69	39	30
A17	Establish performance standards for subordinates	20	51	-31
A5	Determine personnel requirements	11	43	-32
B62	Interpret policies, directives, or procedures for subordinates	17	50	-33
A1	Assign personnel to duty positions	10	43	-33
B41	Counsel subordinates on job progression or career development	32	65	-33
B42	Counsel subordinates on personal or military matters	37	70	-33
A20	Establish work schedules	13	47	-34
C105	Inspect personnel for compliance with military standards	22	56	-34
C114	Write EPRs	35	69	-34
A35	Schedule work assignments and priorities	20	55	-35
A4	Coordinate work activities with other sections or agencies	27	62	-35
A34	Schedule leaves or TDYs	7	44	-37
C115	Write recommendations for awards or decorations	20	57	-37
B70	Supervise Electronic Warfare Systems Technicians (AFSC 45671)	9	48	-39
A21	Participate in meetings, such as staff meetings, briefings, conferences, or workshops	28	69	-41

These broad descriptions for 456X1 personnel generally reflect the jobs identified in this survey. Most of the major jobs are described within AFR 39-1; however, the regulation does not clearly define mobility and cross utilization training functions or reference the fact that many of the 3- and 5- skill personnel will be performing maintenance on planes (flightline and airborne), as well as in the shop. Also, the regulation suggests 3- and 5-skill level personnel will repair equipment including signal analysis equipment and direction finders. Only a few airmen work with such systems. For example, only 5 percent of the 1,644 DAFSC 45631/51 A/B personnel align display and analysis system LRUs, and only 1 percent align QRC signal analyzer LRUs. In addition, not 1 of the 30 jobs identified in the job structure analysis involves maintenance of signal analysis equipment. Seven-skill levels are also described as repairing several pieces of equipment which only a very few maintain. Less than 3 percent of 543 7-skill levels repair intercept receivers, jamming transmitters, EW pods, signal analysis equipment, recorders, and direction finders. Career field managers should review the AFR 39-1 Specialty Descriptions in light of this information and revise the descriptions to better reflect the duties performed in this career ladder.

Overall, the descriptions depict the technical aspects of the job, as well as most of the major jobs identified in the work structure analysis. The increase in supervisory responsibilities previously described in the DAFSC analysis is also well described in the regulation.

ANALYSIS OF MAJOR COMMANDS (MAJCOM)

Occupational survey data can be used in examining differences in duty and task performance data across major commands. Highlighting these differences may identify any specific needs MAJCOMs may have due to distinguishing performance functions. The 10 users of AFSC 456X1 personnel (TAC, USAFE, PACAF, SAC, ESC, MAC, ATC, AFSC, AFLC, AFCC) were examined. Differences in the job descriptions for the MAJCOMs were noted. The largest differences are between the Tactical Air Forces (TAC, USAFE, and PACAF), SAC, ESC, ATC, and AFLC. Table 12 compares duty differences across MAJCOM personnel.

Comparison of TAC, USAFE, and PACAF duties, tasks, and background data showed only minor differences among these MAJCOMs. The jobs they perform are essentially the same. Therefore, they will be discussed as a group, TAF. Examples of tasks distinguishing within TAF airmen include a larger percent of TAC personnel perform mobility duties, such as assemble or disassemble mockups or test stations for mission deployments and weather proof mobility containers and pallets. A greater percentage of USAFE personnel visually inspect and perform minimum performance checks on AN/ALQ-131 pod system LRUs; while a larger percent of PACAF personnel visually inspect and perform minimum performance checks on AN/ALQ-119 pod system LRUs. The 962 TAF personnel perform an average of 92 tasks. TAF airmen spend approximately 22 percent of their relative job time performing general EW flightline or shop maintenance, similar to other MAJCOM groups. General maintenance tasks which differentiate TAF from other MAJCOM groups include removing or installing nosecones or

TABLE 12

PERCENT TIME SPENT ON DUTIES BY
AFSC 456X1A/B MAJCOM PERSONNEL

DUTIES	TAC N=558	USAFE N=275	PACAF N=129	SAC N=563	ESC N=337	MAC N=154	ATC N=114	AFSC N=33	AFLC N=9	AFCC N=10
A ORGANIZING AND PLANNING	6	6	5	5	10	6	9	12	19	16
B DIRECTING AND IMPLEMENTING	5	6	6	5	7	5	5	5	9	11
C EVALUATING AND INSPECTING	6	6	6	6	8	6	6	9	36	7
D TRAINING	3	4	3	3	5	2	39	2	1	6
E PERFORMING ADMINISTRATIVE FUNCTIONS	7	8	6	6	9	8	12	[illegible]	9	11
F PERFORMING SUPPLY AND EQUIPMENT FUNCTIONS	9	10	10	9	9	9	8	7	13	14
G PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE	23	22	22	21	20	21	7	16	2	19
H PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR AIRBORNE MAINTENANCE	8	7	8	6	5	7	1	9	2	-
I PERFORMING ELECTRONIC WARFARE GENERAL SHOP MAINTENANCE	8	7	8	6	6	7	2	5	-	10
J PERFORMING PREFLIGHT [illegible] FLIGHT OPERATIONAL CHECKS ON ELECTRONIC WARFARE SYSTEMS	2	1	2	4	1	3	-	3	2	-
K ISOLATING MALFUNCTIONS WITHIN ELECTRONIC WARFARE SYSTEMS ON AIRCRAFT	2	2	2	5	2	4	-	3	1	0
L MAINTAINING RECEIVING SYSTEMS	3	2	3	4	2	4	1	4	1	0
M MAINTAINING TRANSMITTING SYSTEMS	1	-	-	3	-	1	1	1	1	0
N MAINTAINING DISPENSING SYSTEMS	2	2	2	3	-	3	2	3	-	0
O MAINTAINING POD SYSTEMS	5	4	7	-	-	2	1	4	0	0
P MAINTAINING SEMIAUTOMATIC SYSTEMS	1	1	0	6	-	2	1	1	-	0
Q MAINTAINING DIRECTION FINDING SYSTEMS	-	0	0	-	1	1	-	-	1	0
R MAINTAINING RECORDING OR REPRODUCING SYSTEMS	-	-	-	1	1	0	-	1	1	2
S MAINTAINING SIGNAL ANALYZERS	-	-	-	-	-	-	0	1	-	-
T MAINTAINING ELECTRONIC RECONNAISSANCE SYSTEMS	-	-	-	1	2	-	-	1	1	0
U MAINTAINING ELECTRONIC WARFARE SUPPORT EQUIPMENT	2	2	2	1	8	1	2	2	-	5
V PERFORMING MOBILITY TASKS	3	2	2	1	1	4	-	-	-	0
W PERFORMING CROSS UTILIZATION TRAINING (CUT) FUNCTIONS	4	6	4	4	2	3	1	3	0	0

- Less than 1 percent

NOTE: Columns may not add to 100 percent due to rounding

tailcones on pod systems and programming EW systems. POD System maintenance duties are performed primarily by TAF personnel. Aircraft typically supported include the A-10A, F-4E/G, and F-16A/B. Common test/shop and support equipment include blower assemblies, boresight equipment, frequency response test sets, AN/ALM-126C, AN/ALM-177B, and AN/ALM-188.

The 563 personnel assigned to SAC perform an average of 98 tasks. When compared to other MAJCOMs, SAC airmen spend a larger percentage of their duty time isolating malfunctions within EW systems on aircraft and maintaining semiautomatic systems. They also support a wider variety of EW systems: receiving system (AN/ALR-20A), transmitting systems (AN/ALT-16/16A and -32), dispensing systems (AN/ALE-24), semiautomatic systems (AN/ALQ-122, -155, -155, and -172), recording, reproducing, and electronic reconnaissance systems. The general maintenance tasks which differentiate SAC personnel from other MAJCOM groups include loading or unloading chaff magazines, pressurizing equipment, and servicing electronic warfare systems with coolants. Aircraft typically supported include B-52G/H and RC-135U/V/W. Common test/shop equipment used by SAC personnel include variacs and wattmeters. They are also the primary operator or maintainers of AN/ALM-25, AN/ALM-26C, AN/ALM-27C, AN/ALM-60A, AN/ALM-174, AN/ALM-194, AN/USM-430, and AN/USM-464.

The 337 personnel assigned to ESC perform an average of 95 tasks. ESC airmen spend approximately 20 percent of their relative job time performing general EW flightline or shop maintenance, similar to the two previous groups. General maintenance tasks which differentiate ESC personnel from other MAJCOM groups include cleaning and degaussing tapes and tape heads, removing or installing magnetic tapes and fiber-optic cables. Also, when compared to other MAJCOMs, ESC airmen spend a larger percent of their duty time maintaining EW support equipment. They support several systems including the AN/USH-24 recording system, Rivet Joint systems, and the ES-142/142A collection system. While most support RC-135U/V/W aircraft, approximately 22 percent of ESC personnel support the TR-1 aircraft, and over 25 percent hold the "A" prefix. Common test/shop equipment used by ESC personnel include audio oscillators, degaussers, logic state analyzers, network state analyzers, and noise figure meters. They are also the primary operators or maintainers of recorder control units and signal distribution units.

The 114 persons assigned to ATC perform an average 53 tasks. They spend more than a third of their relative job time performing training tasks and only 10 percent of their time performing general EW maintenance. By the nature of their assignment, they support EW systems used in a training environment, which includes many of the systems maintained by TAF and SAC. They use or operate a wide spectrum of test and support equipment. The differences between ATC and other MAJCOMs are as expected.

The 9 persons assigned to AFLC perform an average of 37 tasks. They spend more than a third of their relative job time performing evaluating and inspecting tasks such as evaluating prototype or modified equipment; evaluating deficiency reports, such as materiel, quality, or warranty; and evaluating new electronic warfare systems under qualification test and evaluation. AFLC

members are the most senior in rank, are predominantly paygrades E-5 and E-6, and have over 14 years time in service. They support the different C-130 aircraft variations, such as the EC-130H and C-130E. The differences between AFLC and other MAJCOMs are also as expected.

In summary, though the MAJCOM groups perform similar core tasks identified with general EW maintenance, distinct differences in tasks and duties performed were noted between TAF, SAC, ESC. Not surprisingly, aircraft and equipment supported differed between these commands as well. Comparison of general background data revealed no differences in characteristics, such as number supervised and time in service, between the three groups. Job satisfaction indicators were also similar for all MAJCOMs. Finally, the differences identified between ATC and AFLC were as expected. ATC personnel spend a large percentage of their time in training duties. AFLC personnel primarily perform evaluating and inspecting duties.

TRAINING ANALYSIS

Occupational survey data provide one of several sources of information which can be used to make training programs more relevant and meaningful to students. The three most commonly used types of occupational survey information are: (1) the percent of first-enlistment personnel performing tasks covered in the job inventory, (2) ratings of relative difficulty of tasks, and (3) the ratings of relative emphasis which should be placed on tasks for first-enlistment training. These data can be used in examining training documents, such as the Specialty Training Standard (STS) and the Plan of Instruction (POI).

To aid in the examination of the 456X1A/B specialty training documents, personnel at the 3380th Technical Training Group at Keesler AFB matched nonsupervisory job inventory tasks to appropriate sections of the STS and POIs. With these matchings, comparisons of survey data to the training documents were accomplished. A complete computer listing displaying percent members performing tasks, training emphasis, and task difficulty ratings for each task, along with STS and POI matchings, has been forwarded to the school for its use in further detailed reviews of training documents. The AFSC 456X1 Training Requirements Analysis (TRA), scheduled for publication in April 1991, will also be made available to the school to assist in the evaluation of the training documents.

Training Emphasis (TE) and Task Difficulty (TD)

Training Emphasis (TE) and Task Difficulty (TD) ratings are factors that can assist technical school personnel in deciding what tasks should be emphasized in entry-level training. As discussed previously, four sets of training emphasis ratings were used in this study: TE-TOT, TE-TAF, TE-SAC, and TE-ESC. TE-TOT is derived from raters as a group across all MAJCOMs. This rating should be used in reviewing tasks common to all groups regardless of command orientation. TE-TOT ratings provided by career ladder subject-matter experts yielded an average rating of .88, with a standard deviation of 1.62.

Therefore, tasks having a rating of 2.50 (average TE + 1 standard deviation) or better are considered highly recommended for structured training. TE ratings were further tabulated for TAF, SAC, and ESC. These ratings, when used separately, can further define tasks specific to the major commands which may also be appropriate for structured training. TE-TAF ratings provided by TAC, USAFE, and PACAF subject-matter experts yielded an average rating of .90, with a standard deviation of 1.43. Therefore, TAF-rated tasks having a TE rating of 2.33 or better are considered highly recommended for "B" shred structured training. TE-SAC ratings provided by SAC subject-matter experts yielded an average rating of .92, with a standard deviation of 1.58. Tasks having a SAC rating of 2.50 or better are considered highly recommended for "A" shred structured training. TE-ESC ratings provided by ESC subject-matter experts yielded an average rating of .73, with a standard deviation of 1.32. Therefore, ESC-rated tasks having a rating of 2.05 or better are considered highly recommended for ESC structured training. Table 13 details the average TE ratings and standard deviations for the career ladder and MAJCOM groups. TD ratings were adjusted to an average of 5.00 and a standard deviation of 1.00. Tasks with ratings of 3.00 or better are perceived as difficult enough to warrant centralized training. For a complete discussion of TE and TD, please refer back to the Task Factor Administration section of this report.

Tasks having the highest TE ratings for the total career ladder are listed in Table 14. Table 14 includes, for each task, the percentage of total first-job and first-enlistment personnel performing and the TD rating. As illustrated in Table 14, the total career ladder tasks pertain to the general technical functions within the specialty. A majority of these tasks fall into the performing EW general flightline or shop maintenance duty (Duty G), with others relating to performing EW general flightline or airborne maintenance functions (Duty H). A set of 89 tasks were rated high in TE by the total group. Sixty-seven of these tasks were also performed by substantial percentages of the first-enlistment personnel and are probably most appropriately trained in the common portion of the basic technical training course. Several of these tasks also have average to high TD ratings.

Tables 15A, 15B, and 15C list the MAJCOM-unique tasks with high TE ratings for TAF, SAC, and ESC, respectively. Tables 15A, 15B, and 15C include for each task the percentage of first-enlistment personnel performing and the TD rating. Forty-nine of 143 tasks rated high in TE by TAC personnel were not rated high by the other MAJCOMs. Many of these unique tasks related to maintaining dispensing and pod systems, as seen in Table 15A. Table 15B depicts the 44 unique tasks of the 134 tasks rated high in TE by SAC personnel. Several of these SAC-specific tasks relate to isolating malfunctions within EW systems on aircraft and maintaining semiautomatic systems. Thirty-four of 107 tasks rated high in TE by ESC personnel were not common to the other MAJCOMs. Table 15C shows many of these tasks involve maintaining EW support equipment. These tasks rated high in TE by the different MAJCOMs (TE-TAF, TE-SAC, and TE-ESC) can be used to determine training needs for the peculiar commands and may be most suitable for channelized or follow-on training.

TABLE 13

TRAINING EMPAHSIS RATING DATA
AFSC 456X1A/B

	TE TOTAL	TE TAF*	TE SAC	TE ESC
NUMBER OF RATERS	117	50	48	17
MEAN RATING	0.88	0.90	0.92	0.73
STANDARD DEVIATION	1.62	1.43	1.58	1.32
HIGH RATING	2.50	2.33	2.50	2.05

* TAF includes TAC, USAFE, and PACAF raters

TABLE 14

TASKS RATED HIGHEST IN TRAINING EMPHASIS (TE TOT) FOR 456X1 PERSONNEL
(GREATER THAN 1 STANDARD DEVIATION ABOVE THE AVERAGE)

TASKS		TOT TNG EMP*	PERCENT MEMBERS PERFORMING TOTAL 1ST JOB (N=62)	PERCENT MEMBERS PERFORMING TOTAL 1ST ENL (N=457)	TASK DIFF**
G314	Research technical order wiring or circuit diagrams	6.28	65	80	5.37
G288	Perform soldering tasks	6.19	65	83	4.31
G293	Practice electrostatic discharge (ESD) procedures	5.68	58	63	4.07
G315	Research technical orders to identify components or items of equipment	5.68	61	75	4.85
G317	Secure classified property	5.65	73	82	3.75
E220	Operate Core Automated Maintenance System (CAMS)	5.06	24	49	5.22
G283	Interconnect test equipment with LRUs	5.01	60	75	3.81
G281	Inspect coaxial cables	4.97	65	83	3.22
G297	Remove or install coaxial cable connectors	4.93	65	80	4.05
G319	Splice coaxial cables	4.85	24	43	4.91
G308	Remove or install multiconductor cable connectors	4.80	47	63	4.51
F229	Complete AF Forms 2005 (Issue/Turn-In Request)	4.62	58	64	3.25
E204	Initiate or complete aircraft maintenance forms, such as AFTO Forms 781 series	4.61	13	35	3.56
G295	Program electronic warfare systems	4.55	40	63	5.11
I361	Fabricate coaxial cables	4.54	40	47	4.65
G289	Perform support equipment inspections	4.50	40	60	4.22
G322	Splice multiconductor cables	4.45	19	33	5.26
G287	Perform phase inspections of electronic warfare equipment	4.30	45	59	5.38
G301	Remove or install heat splices	4.30	26	42	4.07
G316	Safety wire units	4.30	66	76	3.43
I363	Fabricate multiconductor cables	4.29	16	35	5.39
E178	Annotate or complete AFTO Forms 349 (Maintenance Data Collection Record)	4.27	34	56	3.72
G282	Inspect waveguide assemblies	4.26	40	53	3.58
G298	Remove or install coaxial cables	4.23	60	79	3.47

* Average Training Emphasis = .88 with SD of 1.62 (High = 2.50)
** Average Task Difficulty = 5.00 with SD of 1.00

TABLE 14 (CONTINUED)

TASKS RATED HIGHEST IN TRAINING EMPHASIS (TE TOT) FOR 456X1 PERSONNEL
(GREATER THAN 1 STANDARD DEVIATION ABOVE THE AVERAGE)

TASKS		TOT TNG EMP*	PERCENT MEMBERS PERFORMING TOTAL 1ST JOB (N=62)	PERCENT MEMBERS PERFORMING TOTAL 1ST ENL (N=457)	TASK DIFF**
H336	Perform safety checks on aircraft devices, such as ejector seats or jettison switches	4.23	16	25	4.07
H347	Research technical order data for flightline checkout	4.20	23	42	4.50
G323	Transport classified equipment	4.07	44	61	3.63
G277	Change fuses or circuit breakers	3.96	52	75	2.87
G286	Perform antenna checkouts	3.91	44	56	4.91
H329	Perform cable frequency response and standing wave ratio (SWR) checks	3.88	19	25	5.87
G290	Perform transmission line checkouts	3.80	26	41	5.58
W1025	Apply power to aircraft	3.75	35	51	3.73
G309	Remove or install multiconductor cables	3.72	40	54	3.71
H335	Perform phase inspections on aircraft	3.71	27	37	5.21
F252	Maintain consolidated tool kits	3.67	19	30	3.89
W1033	Operate aerospace ground equipment (AGE), such as power units, heaters, light carts, or li	3.66	35	54	3.83
G291	Perform visual inspection of antennas	3.65	53	69	3.37
I360	Fabricate antenna cables	3.64	11	16	4.69
H334	Perform periodic inspections of electronic warfare equipment	3.58	44	55	4.77
E223	Report technical order deficiencies	3.51	18	31	4.43
F265	Research microfiche files for supply requisition data	3.50	35	46	3.73
H341	Remove or install antennas	3.49	35	54	3.94
D123	Conduct OJT	3.48	6	20	5.15
H330	Perform corrosion control on electronic warfare equipment on aircraft	3.48	23	34	4.19
I379	Remove or install printed circuit board components	3.48	44	47	4.55
G303	Remove or install knobs or controls	3.42	42	69	2.16
E175	Annotate AFTO Forms 244 and 245 (Industrial/Support Equipment Record)	3.40	11	28	3.22

* Average Training Emphasis = .88 with SD of 1.62 (High = 2.50)
** Average Task Difficulty = 5.00 with SD of 1.00

TABLE 15A

TASKS RATED HIGHEST IN TRAINING EMPHASIS (TE TAF) FOR 456X1 TAF PERSONNEL
(GREATER THAN 1 STANDARD DEVIATION ABOVE THE AVERAGE)

TASKS		TAF TNG EMPH*	PERCENT MEMBERS PERFORMING: TAF 1ST ENL (N=211)	TASK DIFF**
N660	Isolate malfunctioning AN/ALE-40 dispensing system LRU subassemblies or components	4.42	34	5.32
N667	Perform minimum performance checks on AN/ALE-40 dispensing system LRUs	4.40	37	4.54
N681	Visually inspect AN/ALE-40 dispensing system LRUs	3.76	43	3.59
E182	Complete AF Forms 127 (Traffic Transfer Receipt)	3.74	19	3.05
N674	Remove or install AN/ALE-40 dispensing system LRU subassemblies or components	3.74	32	4.56
K454	Isolate malfunctioning AN/ALE-40 dispensing system LRUs on aircraft	3.58	38	5.35
N649	Align AN/ALE-40 dispensing system LRUs	3.40	27	4.67
O705	Perform minimum performance checks on AN/ALQ-131 pod system LRUs	3.40	26	6.01
N655	Clean and lubricate AN/ALE-40 dispensing system LRUs	3.38	36	3.96
V1003	Assemble or disassemble mockups or test stations for mission deployments	3.34	23	5.43
L523	Align AN/ALR-69 receiving system LRUs	3.32	15	5.63
O686	Align AN/ALQ-131 pod system LRUs	3.24	26	6.63
L556	Perform minimum performance checks on AN/ALR-69 receiving system LRUs	3.22	16	5.58
O698	Isolate malfunctioning AN/ALQ-131 pod system LRU subassemblies or components	3.16	25	6.93
I371	Isolate test bench mockup malfunctions	3.14	43	5.52
L574	Remove or install AN/ALR-69 receiving system LRU subassemblies or components	3.12	17	4.53
O685	Align AN/ALQ-119 pod system LRUs	3.12	11	6.75
O704	Perform minimum performance checks on AN/ALQ-119 pod system LRUs	3.10	12	6.21
K470	Isolate malfunctioning AN/ALR-69 receiving system LRUs on aircraft	3.04	18	5.42
L541	Isolate malfunctioning AN/ALR-69 receiving system LRU subassemblies or components	3.04	16	5.60
O697	Isolate malfunctioning AN/ALQ-119 pod system LRU subassemblies or components	3.04	11	7.20
V1019	Reconfigure pods for mission deployments	3.02	18	5.30
O692	Assemble or disassemble AN/ALQ-131 pod system LRUs	2.88	24	5.40
L573	Remove or install AN/ALR-46/46A receiving system LRU subassemblies or components	2.80	17	4.39
V1012	Pack individual mobility equipment for deployments	2.76	26	4.20
I364	Fabricate test bench mockups	2.74	15	5.82
O691	Assemble or disassemble AN/ALQ-119 pod system LRUs	2.74	11	6.10

* Average Training Emphasis = 0.90 with SD of 1.43 (High = 2.33)
** Average Task Difficulty = 5.00 with SD of 1.00

TABLE 15A (CONTINUED)

TASKS RATED HIGHEST IN TRAINING EMPHASIS (TE TAF) FOR 456X1 TAF PERSONNEL
(GREATER THAN 1 STANDARD DEVIATION ABOVE THE AVERAGE)

TASKS		TAF TNG EMPH*	PERCENT MEMBERS PERFORMING: TAF 1ST ENL (N=211)	TASK DIFF**
0712	Remove or install AN/ALQ-131 pod system LRU subassemblies or components	2.74	27	5.37
C115	Write recommendations for awards or decorations	2.72	0	5.98
V1014	Perform cargo or classified courier duties	2.70	20	3.98
B64	Orient newly assigned personnel	2.68	12	3.57
L591	Visually inspect AN/ALR-69 receiving system LRUs	2.68	20	3.75
0719	Visually inspect AN/ALQ-131 pod system LRUs	2.68	29	4.69
I366	Inspect category II or III electronic warfare support equipment	2.66	25	4.42
J398	Perform preflight operational checks on AN/ALR-69 receiving systems	2.66	15	4.42
0718	Visually inspect AN/ALQ-119 pod system LRUs	2.66	13	4.86
E189	Complete quality deficiency reports (QDRs)	2.64	9	4.95
F235	Complete DD Forms 1348-6 (DOD Single Line Item Requisition System Document)	2.62	11	4.42
A7	Determine work priorities	2.60	19	4.61
I373	Operate overhead cranes	2.58	48	2.64
V1023	Unpack mobility containers at mission locations	2.54	21	3.89
H328	Modify electronic warfare equipment on aircraft	2.52	22	5.49
L540	Isolate malfunctioning AN/ALR-46/46A receiving system LRU subassemblies or components	2.52	18	5.35
0711	Remove or install AN/ALQ-119 pod system LRU subassemblies or components	2.50	13	5.71
K456	Isolate malfunctioning AN/ALQ-119 pod system LRUs on aircraft	2.46	12	5.06
V1011	Maintain security throughout flight phase of deployments	2.44	7	4.58
E169	Annotate AF Forms 1800 (Operator's Inspection Guide and Trouble Report (General Purpose Vehicles))	2.38	16	2.41
B67	Supervise Apprentice Electronic Warfare Systems Specialists (AFSC 45631B)	2.36	9	5.02
H351	Upload or download electronic warfare missile well adapters	2.36	21	4.25
I359	Crate or uncrate equipment	2.34	46	2.44

* Average Training Emphasis = 0.90 with SD of 1.43 (High = 2.33)
** Average Task Difficulty = 5.00 with SD of 1.00

TABLE 15B

TASKS RATED HIGHEST IN TRAINING EMPHASIS (TE SAC) FOR 456X1 SAC PERSONNEL
(GREATER THAN 1 STANDARD DEVIATION ABOVE THE AVERAGE)

TASKS		SAC TNG EMPH*	PERCENT MEMBERS PERFORMING SAC 1ST ENL (N=173)	TASK DIFF**
F226	Annotate AF Forms 2413 (Supply Control Log)	3.50	45	3.33
H327	Lace aircraft cable assemblies	3.48	13	3.33
L553	Perform minimum performance checks on AN/ALR-20A receiving system LRUs	3.38	37	5.26
G299	Remove or install desiccants	3.31	63	2.72
P761	Perform minimum performance checks on AN/ALQ-155 semiautomatic system LRUs	3.27	39	6.19
J411	Perform preflight or postflight operational checks on AN/ALQ-155 semiautomatic systems	3.25	45	5.46
P728	Align AN/ALQ-155 semiautomatic system LRUs	3.21	17	6.58
L520	Align AN/ALR-20A receiving system LRUs	3.19	42	5.60
K462	Isolate malfunctioning AN/ALQ-155 semiautomatic system LRUs on aircraft	3.15	46	5.13
K467	Isolate malfunctioning AN/ALR-20A receiving system LRUs on aircraft	3.13	47	5.00
H338	Perform stray voltage checks on flare systems	3.08	42	4.07
J413	Perform preflight or postflight operational checks on AN/ALQ-172 semiautomatic systems	3.04	29	5.74
K457	Isolate malfunctioning AN/ALQ-122 semiautomatic system LRUs on aircraft	3.02	42	5.79
P744	Isolate malfunctioning AN/ALQ-155 semiautomatic system LRU subassemblies or components	3.00	25	6.71
J405	Perform preflight or postflight operational checks on AN/ALE-24 dispensing systems	2.98	34	4.62
P762	Perform minimum performance checks on AN/ALQ-172 semiautomatic system LRUs	2.98	31	5.75
K463	Isolate malfunctioning AN/ALQ-172 semiautomatic system LRUs on aircraft	2.96	43	6.47
K450	Isolate malfunctioning AN/ALE-20 dispensing system LRUs on aircraft	2.94	45	5.40
K451	Isolate malfunctioning AN/ALE-24 dispensing system LRUs on aircraft receiving	2.94	45	4.99
J396	Perform preflight operational checks on AN/ALR-20A systems	2.90	32	4.55
C107	Perform electronic warfare equipment quality control inspections	2.85	17	5.20
J389	Perform preflight operational checks on AN/ALE-20 dispensing systems	2.83	39	4.23
P758	Perform minimum performance checks on AN/ALQ-122 semiautomatic system LRUs	2.83	31	5.60
K460	Isolate malfunctioning AN/ALQ-153 semiautomatic system LRUs on aircraft	2.81	42	5.39
K471	Isolate malfunctioning AN/ALT-16/16A transmitting system LRUs on aircraft	2.81	43	4.80
L590	Visually inspect AN/ALR-46/46A receiving system LRUs	2.81	44	3.87
K473	Isolate malfunctioning AN/ALT-32 transmitting system LRUs on aircraft	2.79	44	4.76

* Average Training Emphasis = 0.92 with SD of 1.58 (High = 2.50)
** Average Task Difficulty = 5.00 with SD of 1.00

TABLE 15B (CONTINUED)

TASKS RATED HIGHEST IN TRAINING EMPHASIS (TE SAC) FOR 456X1 SAC PERSONNEL
(GREATER THAN 1 STANDARD DEVIATION ABOVE THE AVERAGE)

TASKS		SAC TNG EMPH*	PERCENT MEMBERS PERFORMING: SAC 1ST ENL (N=173)	TASK DIFF**
J393	Perform preflight operational checks on AN/ALQ-122 semiautomatic systems	2.77	28	4.70
P725	Align AN/ALQ-122 semiautomatic system LRUs	2.77	21	6.06
L538	Isolate malfunctioning AN/ALR-20A receiving system LRU subassemblies or components	2.73	22	5.70
P729	Align AN/ALQ-172 semiautomatic system LRUs	2.73	12	6.51
B66	Supervise Apprentice Electronic Warfare Systems Specialists (AFSC 45631A)	2.71	9	5.25
J409	Perform preflight or postflight operational checks on AN/ALQ-153 semiautomatic systems	2.71	29	4.56
L588	Visually inspect AN/ALR-20A receiving system LRUs	2.69	44	4.02
J399	Perform preflight operational checks on AN/ALT-16/16A transmitting systems	2.67	29	4.41
M624	Perform minimum performance checks on AN/ALT-32 transmitting system LRUs	2.65	36	5.47
M606	Align AN/ALT-16/16A transmitting system LRUs	2.63	16	6.00
P759	Perform minimum performance checks on AN/ALQ-153 semiautomatic system LRUs	2.58	43	4.57
J400	Perform preflight operational checks on AN/ALT-32 transmitting systems	2.56	30	4.43
I384	Repair test bench mockups	2.54	36	5.35
N663	Perform minimum performance checks on AN/ALE-20 dispensing system LRUs	2.54	39	4.59
P745	Isolate malfunctioning AN/ALQ-172 semiautomatic system LRUs	2.54	24	6.56
M622	Perform minimum performance checks on AN/ALT-16/16A transmitting system LRUs	2.52	36	5.59
F228	Certify status of repairable, serviceable, or condemned parts	2.50	19	3.67

* Average Training Emphasis = 0.92 with SD of 1.58 (High = 2.50)
** Average Task Difficulty = 5.00 with SD of 1.00

TABLE 15C

TASKS RATED HIGHEST IN TRAINING EMPHASIS (TE ESC) FOR 456X1 ESC PERSONNEL
(GREATER THAN 1 STANDARD DEVIATION ABOVE THE AVERAGE)

TASKS		ESC TNG EMPH*	PERCENT MEMBERS PERFORMING ESC 1ST ENL (N=44)	TASK DIFF**
G300	Remove or install fiber-optic cables	4.00	14	4.36
H333	Perform in-flight maintenance of electronic equipment	3.65	9	6.08
G320	Splice fiber-optic cables	3.47	7	6.92
H332	Perform in-flight checkouts of electronic equipment	3.41	9	5.10
I362	Fabricate fiber-optic cables	3.29	9	6.86
U972	Perform diagnostic self-tests on computers	3.00	34	5.21
H338	Perform stray voltage checks on flare systems	2.94	0	4.07
U958	Analyze memory devices	2.65	27	5.96
G274	Align tape heads	2.53	34	4.73
I356	Adjust tape recorder brakes	2.53	18	4.79
J394	Perform preflight operational checks on AN/ALQ-131 pod systems	2.47	0	4.26
U957	Analyze logic circuits	2.47	30	6.33
U966	Isolate malfunctions within logic circuits	2.47	23	6.45
U976	Perform diagnostic tests on disc drives	2.47	27	5.43
G305	Remove or install magnetic tapes	2.41	50	2.75
U967	Isolate malfunctions within memory devices	2.41	20	6.52
U971	Perform automated diagnostic tests on computer-controlled LRUs	2.41	25	5.37
U982	Perform operational checks on disc drives	2.41	30	5.14
U975	Perform diagnostic tests on computer peripheral video displays	2.35	27	4.87
U977	Perform diagnostic tests on peripheral computer terminal keyboards	2.35	30	5.07
G279	Degauss tape heads	2.29	48	2.54
U989	Program programmable read only memory (PROM) programs	2.29	23	5.74
E187	Complete Field Maintenance Reports (FMR)	2.24	30	4.43
G294	Pressurize equipment	2.24	2	3.71
U960	Analyze shift registers	2.24	18	6.03
U961	Analyze up-and-down counters	2.24	14	6.14
U973	Perform diagnostic tests on computer peripheral line printers	2.24	25	4.91
U956	Analyze digital-to-analog converters	2.18	25	5.88
U962	Isolate malfunctions within analog-to-digital converters	2.18	23	6.18
U964	Isolate malfunctions within digital display systems	2.18	18	6.04
U970	Isolate malfunctions within up-and-down counters	2.12	11	6.31
U984	Perform operational checks on peripheral computer terminal keyboards	2.12	25	4.75
G280	Degauss tapes	2.06	48	2.38
G321	Splice magnetic tapes	2.06	7	4.32

* Average Training Emphasis = 0.73 with SD of 1.32 (High = 2.05)
** Average Task Difficulty = 5.00 with SD of 1.00

Table 16 lists the tasks having the highest TD ratings. The percentage of total first-enlistment, 5-, and 7-skill level personnel performing, and the TE rating are also included for each task. In general, these tasks are dispersed throughout the different duties. However, several tasks relate to supervisory functions or maintaining EW support equipment and maintaining pod and semiautomatic systems. These tasks are not performed by many airmen and have low TE ratings.

While reviewing this section of the report, note that tasks performed by moderate to high percentages of personnel (30 percent or better) in the first-enlistment group may justify resident course training. TE and TD ratings, composed of the opinions of experienced career ladder personnel, are secondary factors that may assist training developers in deciding which tasks should be emphasized for entry-level training. Those tasks receiving high task factor ratings, but performed by low percentages of first-enlistment personnel, may be more appropriately planned for OJT programs within the career ladder. Low task factor ratings may highlight tasks best left out of training for new personnel. Training decisions are not only weighed against these factors, but should be influenced by many other considerations including command concerns, safety standards, and criticality of the tasks.

Analysis of First-Enlistment Personnel

In this study, there are 457 airmen in their first enlistment, representing 21 percent of all 456X1 personnel. These airmen are qualified at either the 3- or 5-skill level. Figure 2 reflects the distribution of these first-enlistment airmen across career ladder jobs. As shown in Figure 2, most of the first-enlistment members are located in the technical jobs. Fifty-three percent of the first-termers are located in the TAF related jobs, with the largest representation in the Pod Systems Maintenance I (17 percent) and Receiving Systems Maintenance (25 percent) cluster. Thirty-one percent of the first-enlistment personnel are performing in the SAC-specific jobs, including 11 percent in the B-52G/H Semiautomatic Systems Maintenance cluster and 18 percent in the B-52G/H General Systems Maintenance cluster. Finally, ESC jobs host approximately 8 percent of the first-termers. These jobs account for 94 percent of all 1-48 months TAFMS respondents.

Table 17 presents a list of representative tasks performed by the 456X1A/B first-termers. These first-enlistment personnel perform an average of 81 tasks, with many of the tasks common to both "A" and "B" shred personnel. Examples of common tasks likely to be performed by first-enlistment 456X1A/B personnel include: inspect coaxial cables, perform soldering tasks, secure classified property, remove or install coaxial cable connectors, and research technical order wiring or circuit diagrams. These airmen also perform tasks unique to their shreds. Tasks which best distinguish 456X1A from 456X1B first-term personnel are presented in Table 18. Examples of tasks with the greatest difference in members performing include "A" shred personnel loading or unloading chaff magazines and visually inspecting AN/ALQ-153 semiautomatic system LRUs. Tasks performed by "B" shred personnel include operating overhead cranes and visually inspecting AN/ALE-40 dispensing system LRUs.

TABLE 16

TASKS RATED HIGHEST IN TASK DIFFICULTY (TD) FOR 456X1A/B PERSONNEL
(GREATER THAN 1 STANDARD DEVIATION ABOVE THE AVERAGE)

TASKS		TASK DIFF*	PERCENT MEMBERS PERFORMING: TOTAL 1ST ENL (N=457)	TOTAL 45651 (N=1,251)	TOTAL 45671 (N=543)	TNG EMPH**
C93	Evaluate new electronic warfare systems under research development test and evaluation (RDT&E)	7.38	1	3	7	.13
0697	Isolate malfunctioning AN/ALQ-119 pod system LRU subassemblies or components	7.20	6	9	4	1.94
U948	Align ES-121 tactical ELINT ground station (AEELS)	7.19	0	0	0	.00
L526	Align Compass Call PME receiving system LRUs	7.16	1	2	1	.22
A14	Draft engineering change proposals	7.09	1	3	8	.15
K497	Isolate malfunctioning experimental system LRUs on aircraft	7.08	1	2	1	.06
K484	Isolate malfunctioning Compass Call PME on aircraft	7.07	2	4	3	.29
L532	Align experimental receiving system LRUs	7.05	0	0	1	.00
C91	Evaluate new electronic warfare systems under initial operational test and evaluation (IOT&E)	7.05	2	6	9	.26
0688	Align experimental pod system LRUs	7.00	1	0	0	.14
L552	Isolate malfunctioning WJ-1740 receiving system LRU subassemblies or components	6.97	4	4	3	.35
K483	Isolate malfunctioning Combat Sent systems on aircraft	6.95	2	2	1	.28
Q815	Isolate malfunctioning experimental direction finding system LRU subassemblies or components	6.94	0	0	1	.00
0698	Isolate malfunctioning AN/ALQ-131 pod system LRU subassemblies or components	6.93	12	12	5	1.85
C92	Evaluate new electronic warfare systems under qualification test and evaluation (QT&E)	6.93	2	5	9	.26
G320	Splice fiber-optic cables	6.92	1	1	1	.95
L549	Isolate malfunctioning SEARS LRU subassemblies or components	6.87	0	0	1	.05
0701	Isolate malfunctioning experimental pod system LRU subassemblies or components	6.87	0	1	0	.21

* Average Task Difficulty = 5.00 with SD of 1.00

** Average Training Emphasis = 0.88 with SD of 1.62 (High = 2.50)

TABLE 16 (CONTINUED)

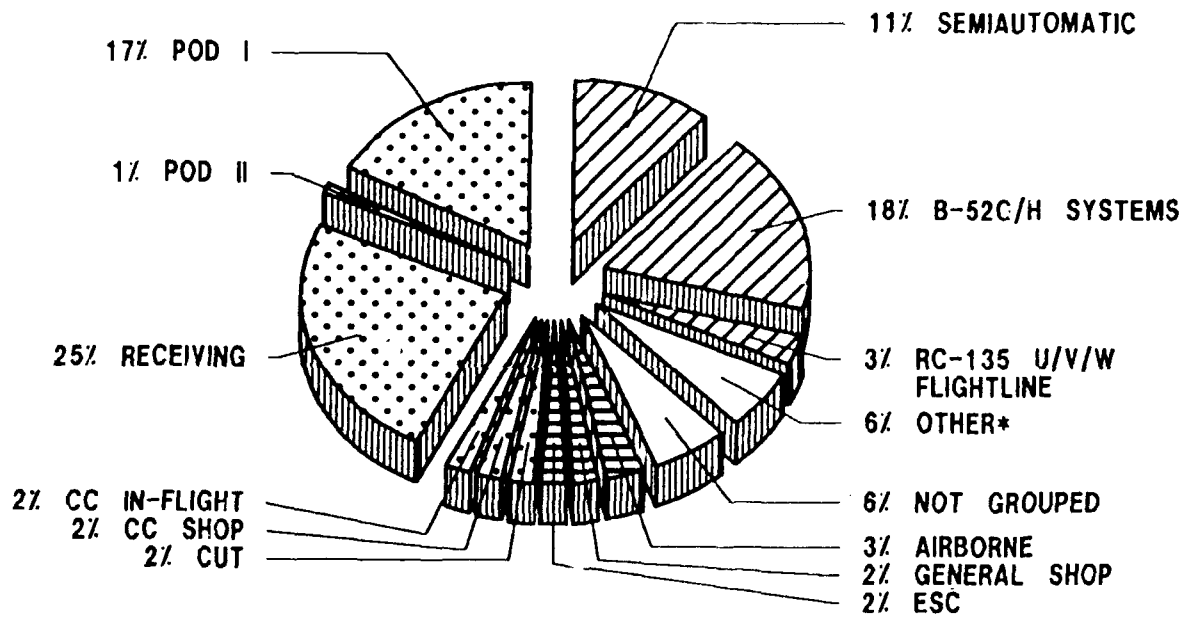
TASKS RATED HIGHEST IN TASK DIFFICULTY (TD) FOR 456X1A/B PERSONNEL
(GREATER THAN 1 STANDARD DEVIATION ABOVE THE AVERAGE)

TASKS		TASK DIFF*	PERCENT MEMBERS PERFORMING: TOTAL 1ST ENL (N=457)	TOTAL 45651 (N=1,251)	TOTAL 45671 (N=543)	TNG EMPH**
I362	Fabricate fiber-optic cables	6.86	2	2	2	1.01
M611	Align Defense System (DEF-H) receiver/transmitting systems	6.85	0	0	0	.00
L544	Isolate malfunctioning Compass Call PME receiving system LRU subassemblies or components	6.81	2	3	1	.24
K482	Isolate malfunctioning Cobra Ball systems on aircraft	6.81	0	0	0	.16
0699	Isolate malfunctioning AN/ALQ-184 pod system LRU subassemblies or components	6.80	2	2	1	.93
L528	Align EMR/EIP receiver systems	6.78	0	0	0	.00
C89	Evaluate methods of testing new electronic warfare equipment	6.77	3	6	11	.36
0685	Align AN/ALQ-119 pod system LRUs	6.75	5	9	3	1.97
K505	Isolate malfunctioning Rivet Joint systems on aircraft	6.74	3	7	5	.48
L543	Isolate malfunctioning AN/APR-47 receiving system LRU subassemblies or components	6.74	5	5	3	.68
0689	Align QRC pod system LRUs	6.73	3	4	1	.32
M620	Isolate malfunctioning experimental transmitting system LRU subassemblies or components	6.71	0	0	1	.00
U950	Align ES-230A tactical digital information link (TADIL) fault isolation unit	6.71	1	2	1	.03
M617	Isolate malfunctioning Compass Call PME transmitting system LRU subassemblies or components	6.71	2	3	1	.29
A13	Draft budget requirements	6.71	1	3	15	.04
P744	Isolate malfunctioning AN/ALQ-155 semiautomatic system LRU subassemblies or components	6.71	9	5	4	1.70
L537	Align WJ-1740 receiving system LRUs	6.67	5	4	3	.39
L547	Isolate malfunctioning experimental receiving system LRU subassemblies or components	6.66	0	1	2	.00

* Average Task Difficulty = 5.00 with SD of 1.00

** Average Training Emphasis = 0.88 with SD of 1.62 (High = 2.50)

DISTRIBUTION OF AFSC 456X1A/B FIRST-ENLISTMENT PERSONNEL ACROSS SPECIALTY JOB GROUPS



* Includes 9 small jobs from all MAJCOM and Supply groups

Figure 2

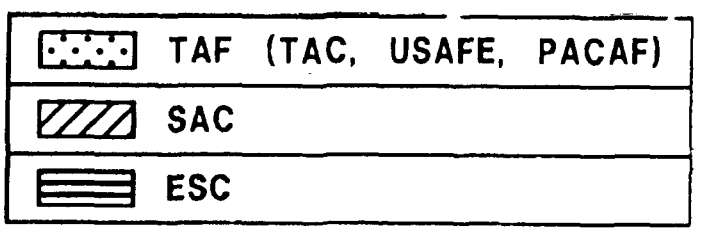


TABLE 17

REPRESENTATIVE TASKS PERFORMED BY AFSC 456X1A/B
FIRST-ENLISTMENT PERSONNEL
(1-48 MONTHS TAFMS)

TASKS		PERCENT MEMBERS PERFORMING (N=457)
G281	Inspect coaxial cables	83
G288	Perform soldering tasks	83
G317	Secure classified property	82
G297	Remove or install coaxial cable connectors	80
G314	Research technical order wiring or circuit diagrams	80
G298	Remove or install coaxial cables	79
G304	Remove or install light bulbs	77
G306	Remove or install minor hardware, such as latches, screws, or hinges	77
G316	Safety wire units	76
G277	Change fuses or circuit breakers	75
G283	Interconnect test equipment with LRUs	75
G315	Research technical orders to identify components or items of equipment	75
G291	Perform visual inspection of antennas	69
G303	Remove or install knobs or controls	69
F229	Complete AF Forms 2005 (Issue/Turn-In Request)	64
G293	Practice electrostatic discharge (ESD) procedures	63
G295	Program electronic warfare systems	63
G308	Remove or install multiconductor cable connectors	63
G323	Transport classified equipment	61
G289	Perform support equipment inspections	60
G287	Perform phase inspections of electronic warfare equipment	59
G324	Transport electronic warfare systems	58
E178	Annotate or complete AFTO Forms 349 (Maintenance Data Collection Record)	56
G286	Perform antenna checkouts	56
H334	Perform periodic inspections of electronic warfare equipment	55
W1033	Operate aerospace ground equipment (AGE), such as power units, heaters, light carts, or lifts	54
G282	Inspect waveguide assemblies	53
H343	Remove or install equipment to facilitate other maintenance	52
W1025	Apply power to aircraft	51
E220	Operate Core Automated Maintenance System (CAMS)	49
H340	Remove or install aircraft access panels	49
I379	Remove or install printed circuit board components	47
W1028	Inventory consolidated tool kits (CTK)	47
F227	Attach or annotate equipment status labels or tags, such as DD Forms 1574 (Serviceable Tag-Materiel)	45
F248	Inventory equipment, tools, or supplies, other than aircraft equipment or consolidated tool kits (CTK)	45

TABLE 18

REPRESENTATIVE TASK DIFFERENCES BETWEEN
AFSC 456X1A AND AFSC 456X1B FIRST-ENLISTMENT PERSONNEL
(1-48 MONTHS TAFMS)

TASKS		AFSC 456X1A (N=245)	AFSC 456X1B (N=211)	DIFFERENCE
G284	Load or unload chaff magazines	51	11	40
P792	Visually inspect AN/ALQ-153 semiautomatic system LRUs	36	0	36
K450	Isolate malfunctioning AN/ALE-20 dispensing system LRUs on aircraft	36	-	36
N677	Visually inspect AN/ALE-20 dispensing system LRUs	35	0	35
N678	Visually inspect AN/ALE-24 dispensing system LRUs	35	0	35
H348	Upload or download chaff magazines on or off aircraft	43	9	34
K462	Isolate malfunctioning AN/ALQ-155 semiautomatic system LRUs on aircraft	34	-	34
J411	Perform preflight or postflight operational checks on AN/ALQ-155 semiautomatic systems	33	0	33
K467	Isolate malfunctioning AN/ALR-20A receiving system LRUs on aircraft	33	0	33
J389	Perform preflight operational checks on AN/ALE-20	32	0	32
K451	Isolate malfunctioning AN/ALE-24 dispensing system LRUs on aircraft	32	0	32
K463	Isolate malfunctioning AN/ALQ-172 semiautomatic system LRUs on aircraft	31	-	31
K473	Isolate malfunctioning AN/ALT-32 transmitting system LRUs on aircraft	31	0	31
L588	Visually inspect AN/ALR-20A receiving system LRUs	31	0	31
P794	Visually inspect AN/ALQ-155 semiautomatic system LRUs	31	0	31

- Less than 1 percent

TABLE 18 (CONTINUED)

REPRESENTATIVE TASK DIFFERENCES BETWEEN
AFSC 456X1A AND AFSC 456X1B FIRST-ENLISTMENT PERSONNEL
(1-48 MONTHS TAFMS)

TASKS		AFSC 456X1A (N=245)	AFSC 456X1B (N=211)	DIFFERENCE
O686	Align AN/ALQ-131 pod system LRUs	0	26	-26
O705	Perform minimum performance checks on AN/ALQ-131 pod system LRUs	0	26	-26
H331	Perform end-of-runway inspections	2	28	-26
G316	Safety wire units	64	91	-27
N674	Remove or install AN/ALE-40 dispensing system LRU subassemblies or components	5	32	-27
O712	Remove or install AN/ALQ-131 pod system LRU subassemblies or components	0	27	-27
G291	Perform visual inspection of antennas	56	84	-28
N660	Isolate malfunctioning AN/ALE-40 dispensing system LRU subassemblies or components	6	34	-28
N655	Clean and lubricate AN/ALE-40 dispensing system LRUs	7	36	-29
O719	Visually inspect AN/ALQ-131 pod system LRUs	0	29	-29
K454	Isolate malfunctioning AN/ALE-40 dispensing system LRUs on aircraft	7	38	-31
N667	Perform minimum performance checks on AN/ALE-40 dispensing system LRUs	6	37	-31
N681	Visually inspect AN/ALE-40 dispensing system LRUs	7	43	-36
H352	Upload or download electronic warfare pods using MJ-1 or MJ-4 jammers or hydraulic stands	7	49	-42
I373	Operate overhead cranes	5	48	-43

- Less than 1 percent

The 245 airmen in the "A" shred first-enlistment group perform an average of 85 tasks. Approximately 36 percent of their job time is spent performing EW general flightline or shop maintenance duties. The 211 airmen in the "B" shred first-enlistment group perform an average of 78 tasks. Nearly 43 percent of their job time is spent performing EW general flightline, shop, or airborne maintenance duties. Less than 4 percent of these junior airmen's job time involves supervisory or managerial functions, such as those in Duties A, B, C, or D (see Table 19), suggesting the highly technical nature of their jobs.

Further indication of the technical orientation of these airmen is the variety of test or shop equipment used or operated by first-enlistment personnel. Table 20 lists equipment items worked on by 30 percent or more of the first-termers. Examples of equipment utilized by 456X1 first-enlistment personnel include ammeters, breakout boxes, modulators, oscilloscopes, and punch tape readers. Support or ground equipment operated or maintained by first-enlistment personnel include AN/ALM-177B and AN/APM-427. A full computer listing of all equipment items and the associated percent members performing is supplied in the Training Extracts and should be used by training specialists to determine which types of equipment should be emphasized for first-term training.

Review of Specialty Training Standard (STS)

A comprehensive review of STS 456X1, Electronic Warfare Systems specialist and technician specialty, dated January 1989, is made by comparing STS elements to survey data. STS line items with performance elements are reviewed in terms of TE, TD, and percent members performing information as stipulated in ATCR 52-22, dated 17 February 1989. STS elements containing general career ladder knowledge and information are not reviewed. Typically, tasks performed by 20 percent or more of personnel in appropriate experience or skill-level groups, such as first-enlistment (1-48 months TAFMS), and 5- and 7-skill level groups, should be considered for inclusion in the STS. Due to the nature of this specialty, with 456X1A and 456X1B personnel performing unique tasks, an STS line item is also considered supported if 20 percent or more of "A" shred or "B" shred first-enlistment and 5-skill level personnel perform related tasks. Likewise, tasks with less than 20 percent performing in any of these groups should be considered for deletion from the STS.

Overall, 62 line items of the STS (out of 181 matched items) were not supported by survey data. That is, 62 line items had matched tasks performed by less than 20 percent of any of the above career ladder groups. Forty-six of the unsupported line items centered around maintaining Radar Warning Receivers, Transmitters, Infrared Detection Systems, Infrared Transmitting Systems, Recorders, Direction Finders, Signal Analyzers, and Fiber Optic Cables. Eight unsupported items relate to 456X1 supervision responsibilities. The other eight unsupported items were dispersed throughout the document. Nine line items have performance-level proficiency code for instruction in the basic 3-skill level course. Six of these line items involve isolating,

TABLE 19

PERCENT TIME SPENT ON DUTIES BY
AFSC 456X1A/B FIRST-ENLISTMENT PERSONNEL
(1-48 MONTHS TAFMS)

DUTIES		PERCENT TIME SPENT		
		TOTAL 1ST ENL (N=457)	452X1A 1ST ENL (N=245)	452X1B 1ST ENL (N=211)
A	ORGANIZING AND PLANNING	1	1	1
B	DIRECTING AND IMPLEMENTING	1	1	1
C	EVALUATING AND INSPECTING	1	1	1
D	TRAINING	1	1	1
E	PERFORMING ADMINISTRATIVE FUNCTIONS	5	5	5
F	PERFORMING SUPPLY AND EQUIPMENT FUNCTIONS	8	8	8
G	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE	28	28	31
H	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR AIRBORNE MAINTENANCE	10	8	12
I	PERFORMING ELECTRONIC WARFARE GENERAL SHOP MAINTENANCE	9	9	10
J	PERFORMING PREFLIGHT OR POSTFLIGHT OPERATIONAL CHECKS ON ELECTRONIC WARFARE SYSTEMS	4	4	3
K	ISOLATING MALFUNCTIONS WITHIN ELECTRONIC WARFARE SYSTEMS ON AIRCRAFT	5	6	3
L	MAINTAINING RECEIVING SYSTEMS	4	4	4
M	MAINTAINING TRANSMITTING SYSTEMS	2	3	-
N	MAINTAINING DISPENSING SYSTEMS	4	4	3
O	MAINTAINING POD SYSTEMS	3	-	7
P	MAINTAINING SEMIAUTOMATIC SYSTEMS	4	7	-
Q	MAINTAINING DIRECTION FINDING SYSTEMS	-	-	-
R	MAINTAINING RECORDING OR REPRODUCING SYSTEMS	1	1	-
S	MAINTAINING SIGNAL ANALYZERS	-	-	-
T	MAINTAINING ELECTRONIC RECONNAISSANCE SYSTEMS	-	1	-
U	MAINTAINING ELECTRONIC WARFARE SUPPORT EQUIPMENT	3	3	2
V	PERFORMING MOBILITY TASKS	2	1	3
W	PERFORMING CROSS UTILIZATION TRAINING (CUT) FUNCTIONS	6	4	7

- Less than 1 percent

NOTE: Columns may not add to 100 percent due to rounding

TABLE 20

EQUIPMENT USED OR OPERATED BY 30 PERCENT
OR MORE AFSC 456X1A/B FIRST-ENLISTMENT PERSONNEL
(1-48 MONTHS TAFMS)

TEST/SHOP EQUIPMENT	PERCENT MEMBERS PERFORMING 456X1A/B 1ST ENL (N=457)	456X1A 1ST ENL (N=245)	456X1B 1ST ENL (N=211)
AMMETERS	38	38	37
ATTENUATORS	69	66	72
BREAKOUT BOXES	29	38	18
CALCULATORS	32	32	33
CRYSTAL DIODED DETECTORS	35	26	46
DIRECTIONAL COUPLERS	60	61	59
DUMMY LOADS	69	73	64
FREQUENCY COUNTERS	66	61	72
FREQUENCY RESPONSE TEST SETS	24	5	46
MEMORY DEVICES	42	39	46
MODULATORS	41	31	52
MULTIMETERS	93	92	94
OSCILLOSCOPES	86	93	77
POWER METERS	68	62	74
POWER SUPPLIES	62	60	63
PRESSURE GAUGES	31	39	22
PRINTERS	43	42	43
PULSE GENERATORS	57	53	62
PUNCH TAPE READER	37	29	47
RADAR SIMULATORS	53	49	57
SIGNAL GENERATORS	65	62	68
SOLDERING STATIONS	76	71	82
SPECTRUM ANALYZERS	68	68	67
SWEEP OSCILLATORS	41	30	54
TIME DOMAIN REFLECTOMETERS	31	38	23
UNIVERSAL COUNTERS	46	33	61
SUPPORT/GROUND EQUIPMENT			
AN/ALM-177B	21	9	39
AN/APM-427	38	33	45

removing, and installing radar warning receivers and transmitters. The other three line items concern adjusting transmitters and automatic systems, and isolating defective receivers. The 62 STS line items with representative percent performing data are displayed in Table 21.

Further analysis of the STS found 140 tasks not referenced to the STS, with 67 pertaining to technical functions. Examples of technically oriented tasks performed by greater than 20 percent of 456X1 A- or B-shred airmen and not referenced to the STS are listed in Table 22. Most of these tasks related to general EW flightline, shop, or airborne maintenance, such as removing or installing magnetic tapes, mounting brackets or fixtures, EW radomes, and wave guide assemblies. Several tasks also related to maintaining EW support equipment, mobility, and CUT duties. Usually, such tasks not referenced should be covered by some existing element, or a new item could be added to the STS. Training personnel should carefully review the list of "Tasks Not Referenced," located at the end of the STS computer printout in the TRAINING EXTRACT, to determine areas which might be appropriate for inclusion in future revisions of the STS.

Review of Plan of Instruction (POI)

Based on assistance from the technical school subject-matter experts in matching job inventory tasks to POI E3ABR45631A-000 and POI E3ABR45631B-000, dated June 1990, occupational survey data were matched to related training objectives. A similar method to that of the STS analysis was employed to review the POIs. The specific data examined included percent members performing data for first-enlistment (1-48 months TAFMS) personnel, TE, and TD ratings.

Guidelines outlined in ATCR 52-22 state that a POI objective is supported for training, if 30 percent or more of all first-enlistment personnel perform related tasks. Due to the nature of this specialty, a POI objective is also supported if 30 percent or more of A- or B-shred first-enlistment personnel perform a related task.

POI E3ABR45631A: Of the 39 POI objectives that were matched with survey data, 17 were not supported, having fewer than 30 percent of A-shred first enlistment personnel performing the matched tasks. This equates to 110 out of 822 total course hours. Of the 110 unsupported course hours, only 53 of those hours are performance-level objectives. That is, only eight of the low performance objectives were coded to a proficiency code equivalent to a task performance level (1a, 2b). The areas not supported include sections in the common, as well as the A-shred specific, blocks of instruction. As mentioned previously, the first 27.6 weeks of the A- and B-shred courses are the same. As shown in Table 23, 69 hours (11 objectives) which were not supported are from the 432 common course hours. Thirty-seven of these hours or 6 objectives are performance-level objectives. The other 41 hours not supported are from the 390 unique A-shred course hours. Only 16 of those hours are performance-level objectives. These unsupported objectives, along with their proficiency codes and first-enlistment performance data, are listed in Table 24.

TABLE 21

AFSC 456X1A/B STS LINE ITEMS NOT SUPPORTED BY OSR DATA
(LESS THAN 20 PERCENT MEMBERS PERFORMING)

STS LINE ITEM	CODE	PERCENT MEMBERS PERFORMING*				
		456X1A 1ST ENL (N=245)	456X1B 1ST ENL (N=211)	DAFSC 45651A (N=573)	DAFSC 45651B (N=678)	DAFSC 45671 (N=543)
3. SUPERVISION						
3d. MAKE PERSONNEL ASSIGNMENTS	- -	0	0	3	4	19
3e. SCHEDULE WORK ASSIGNMENTS	- -	0	0	3	3	7
3f. ESTABLISH PERFORMANCE STANDARDS	- -	3	3	11	5	10
3l. CONDUCT INSPECTIONS	- -	10	14	14	19	12
3m. DETERMINE RESOURCE REQUIREMENTS	- -	12	14	11	13	16
3n. REVIEW MAINTENANCE DOCUMENTATION	- -	1	0	8	4	12
3p. COORDINATE PME SUPPORT	- -	5	6	11	12	16
3s. IMPLEMENT SECURITY PROGRAM	- -	1	4	6	8	8
5. AF OCCUPATIONAL SAFETY AND HEALTH PROGRAM						
5a. HAZARDS OF AFSC 456X1	A B	3	3	10	8	16
6. TRAINING						
6a. RECOMMEND PERSONNEL FOR TRAINING	- -	2	0	10	5	17
9. TECHNICAL PUBLICATIONS						
9d. MAINTAIN TECHNICAL PUBLICATION FILES	- -	5	6	14	13	14
10. TEST EQUIPMENT						
10d. SPECIALIZED SUPPORT EQUIPMENT						
10d(5). REPAIR	- -	17	19	13	19	6
10d(6). CALIBRATE	b -	12	10	8	12	6
12. ON EQUIPMENT MAINTENANCE						
12d. PERFORM EQUIPMENT INSPECTIONS						
12d(3). POSTFLIGHT	- -	8	3	11	4	3
12f. PERFORM EQUIPMENT OPERATIONAL CHECKS						
12f(7). INFRARED DETECTION SYSTEMS	- -	1	0	0	0	0
12f(8). INFRARED TRANSMITTER SYSTEMS	- -	4	0	5	0	2
12f(9). RECORDER	- -	7	0	16	1	4
12f(10). DIRECTIONAL FINDERS	- -	4	0	3	1	1
12f(11). SIGNAL ANALYZER	- -	16	17	9	9	5
12g. ISOLATE MALFUNCTIONS TO LRUS						
12g(7). INFRARED DETECTION SYSTEMS	- -	1	0	0	0	0
12g(8). INFRARED TRANSMITTER SYSTEMS	- -	5	0	5	0	2
12g(9). RECORDER	- -	5	1	15	1	3
12g(10). DIRECTION FINDER	- -	3	1	3	0	1
12g(11). SIGNAL ANALYZER	- -	17	18	13	10	6

* Percent shown is highest percent reported for tasks matched to line item

TABLE 21 (CONTINUED)

AFSC 456X1A/B STS LINE ITEMS NOT SUPPORTED BY OSR DATA
(LESS THAN 20 PERCENT MEMBERS PERFORMING)

STS LINE ITEM	CODE	PERCENT MEMBERS PERFORMING* 456X1A 1ST ENL (N=245)	456X1B 1ST ENL (N=211)	DAFSC 45651A (N=573)	DAFSC 45651B (N=678)	DAFSC 45671 (N=543)
13. OFF EQUIPMENT MAINTENANCE						
13f. ACCOMPLISH MINIMUM PERFORMANCE CHECKS OF EW SYSTEMS LRUs						
13f(7). INFRARED DETECTION SYSTEMS	- -	1	0	0	0	0
13f(8). INFRARED TRANSMITTER SYSTEMS	- -	0	0	2	0	0
13f(9). RECORDER	- -	1	2	14	1	3
13f(10). DIRECTION FINDER	- -	3	0	4	0	1
13f(11). SIGNAL ANALYZER	- -	2	6	5	5	2
13g. ISOLATE DEFECTOVE SUBASSEMBLIES OF EW SYSTEMS LRUS						
13g(1). RADAR WARNING RECEIVER	2b -	17	18	9	13	7
13g(2). RECEIVERS	2b -	16	0	8	0	4
13g(3). TRANSMITTERS	2b -	18	4	9	5	3
13g(7). INFRARED DETECTION SYSTEMS	- -	1	0	0	0	0
13g(8). INFRARED TRANSMITTER SYSTEMS	- -	1	0	2	0	0
13g(9). RECORDER	- -	7	3	14	2	3
13g(10). DIRECTION FINDER	- -	2	0	4	0	1
13g(11). SIGNAL ANALYZER	- -	3	4	4	3	1
13h. REMOVE LRU SUBASSEMBLIES						
13h(1). RADAR WARNING RECEIVER	2b -	19	17	10	15	7
13h(3). TRANSMITTERS	2b -	17	4	8	5	3
13h(7). INFRARED DETECTION SYSTEMS	- -	1	0	0	0	0
13h(8). INFRARED TRANSMITTER SYSTEMS	- -	1	0	2	1	1
13g(9). RECORDER	- -	6	4	12	3	3
13h(10). DIRECTION FINDER	- -	4	0	5	0	2
13h(11). SIGNAL ANALYZER	- -	2	4	4	4	1
13j. INSTALL LRU SUBASSEMBLIES						
13j(1). RADAR WARNING RECEIVER	2b -	19	17	10	15	7
13j(3). TRANSMITTERS	2b -	17	4	8	5	3
13j(7). INFRARED DETECTION SYSTEMS	- -	1	0	0	0	0
13j(8). INFRARED TRANSMITTER SYSTEMS	- -	1	0	2	1	1
13g(9). RECORDER	- -	6	4	12	3	3
13j(10). DIRECTION FINDER	- -	3	0	5	0	1
13j(11). SIGNAL ANALYZER	- -	2	4	4	4	1

* Percent shown is highest percent reported for tasks matched to line item

TABLE 21 (CONTINUED)

AFSC 456X1A/B STS LINE ITEMS NOT SUPPORTED BY OSR DATA
(LESS THAN 20 PERCENT MEMBERS PERFORMING)

STS LINE ITEM	CODE	PERCENT MEMBERS PERFORMING* 456X1A 1ST ENL (N=245)	456X1B 1ST ENL (N=211)	DAFSC 45651A (N=573)	DAFSC 45651B (N=678)	DAFSC 45671 (N=543)
13k. ADJUST EW SYSTEM LRUS TO TO SPECIFICATIONS						
13k(3). TRANSMITTERS	2b -	11	4	7	5	3
13k(7). INFRARED DETECTION SYSTEMS	- -	4	3	8	2	3
13k(8). INFRARED TRANSMITTER SYSTEMS	- -	0	0	2	0	0
13k(9). RECORDER	- -	5	0	11	0	3
13k(10). DIRECTION FINDER	- -	3	0	3	0	1
13k(11). SIGNAL ANALYZER	- -	4	4	6	4	2
13k(13). AUTOMATIC SYSTEMS	2b -	15	3	9	4	4
13n. FIBER OPTIC CABLE						
13n(1). REMOVE	- -	3	1	12	1	3
13n(2). REPARE	- -	2	0	1	1	1
13n(3). INSTALL	- -	3	1	12	1	3
13n(4). FABRICATE	- -	2	2	2	2	2

* Percent shown is highest percent reported for tasks matched to line item

TABLE 22

EXAMPLES OF TASKS PERFORMED BY 20 PERCENT OR MORE
AFSC 456X1 GROUP MEMBERS AND NOT REFERENCED TO THE STS

EXAMPLE TASKS		PERCENT MEMBERS PERFORMING				
		456X1A 1ST ENL (N=245)	456X1B 1ST ENL (N=211)	DAFSC 45651A (N=573)	DAFSC 45651B (N=678)	DAFSC 45671 (N=543)
A3	Coordinate flightline or shop maintenance activities with maintenance offices	6	8	27	24	49
A4	Coordinate work activities with other sections or agencies	8	13	35	29	62
C107	Perform electronic warfare equipment quality control inspections	13	9	21	22	31
G283	Interconnect test equipment with LRUs	78	71	68	66	37
G284	Load or unload chaff magazines	51	11	28	9	12
G294	Pressurize equipment	35	10	29	9	12
G299	Remove or install desiccants	52	31	23	25	15
G303	Remove or install knobs or controls	75	63	69	61	31
G304	Remove or install light bulbs	78	75	70	70	35
G305	Remove or install magnetic tapes	25	18	40	20	15
G306	Remove or install minor hardware, such as latches, screws, or hinges	75	80	69	69	32
G307	Remove or install mounting brackets or fixtures	47	65	51	56	24
G313	Remove or install punch tapes	18	29	19	32	14
G316	Safety wire units	64	91	49	78	28
G318	Service electronic warfare systems with coolants	44	34	32	33	18
H334	Perform periodic inspections of electronic warfare equipment	46	66	37	50	19
H335	Perform phase inspections on aircraft	36	39	33	35	16
H340	Remove or install aircraft access panels	46	54	45	45	25
H341	Remove or install antennas	54	54	45	44	21
H342	Remove or install electronic warfare radomes	44	58	30	44	18
H343	Remove or install equipment to facilitate other maintenance	50	55	45	44	22
H346	Remove or install waveguide assemblies	44	22	29	17	10
H348	Upload or download chaff magazines on or off aircraft	43	9	23	8	11
H352	Upload or download electronic warfare pods using MJ-1 or MJ-4 jammers or hydraulic stands	11	49	8	39	10
I373	Operate overhead cranes	5	48	8	47	15
I378	Remove or install category II or III electronic warfare support equipment	13	24	14	23	8
I379	Remove or install printed circuit board components	44	51	39	47	20
I382	Remove or install shop replaceable units	30	41	35	46	19
I384	Repair test bench mockups	36	48	35	46	16
I386	Store magnetic tapes or discs	21	20	31	21	
N655	Clean and lubricate AN/ALE-40 dispensing system LRUs	7	36	6	28	6
O692	Assemble or disassemble AN/ALQ-131 pod system LRUs	0	24	0	21	4
U971	Perform automated diagnostic tests on computer-controlled LRUs	11	17	21	17	10
U972	Perform diagnostic self-tests on computers	11	14	22	17	11
V1012	Pack individual mobility equipment for deployments	12	26	16	26	13
W1040	Position nonpowered or powered AGE to aircraft	29	33	23	29	17

TABLE 23

LOW PERFORMANCE POI OBJECTIVES SUGGESTED FOR REVIEW DUE TO
LESS THAN 30 PERCENT MEMBERS PERFORMING MATCHED TASKS
(1-48 MONTHS TAFMS)

POI ABR45631A/ABR45631B COMMON OBJECTIVES	CODE	PERCENT MEMBERS PERFORMING* ALL 1ST ENL (N=457)	456X1A 1ST ENL (N=245)	456X1B 1ST ENL (N=211)
XV 1a. Chaff Principles	B	10	19	0
XV 2a. Flare Principles	B	9	18	0
XV 4a. AF Occupational Safety and Health	A	3	2	3
XV 5a. Technical Order System	A	5	5	5
XVI 1. Panoramic Receiving System Analysis				
1e. PP-3406A/ALR-20A	2b	14	26	0
1f. IP-1168-ALR-20A	2b	14	26	0
1g. C-9449/ALR-20A	2b	14	26	0
XVI 3a. AN/ALM-60 Receiver Test Station Analysis	2b	20	17	25
XVI 4. AN/ALR-20A Tuner Analysis				
4c. Minimum Performance Check	2b	14	26	0
4d. Alignment Procedures	2b	16	30	0
XVIII 1d. Transmitting Systems Principles and Analysis	B	10	18	0
XVIII 4. Transmitting System Maintenance Procedures				
4b. Determine Output Parameters	2b	12	13	12
4e. Isolate Malfunctions	2b	35	31	0

* Percent shown is highest percent reported for tasks matched to objective

TABLE 24

LOW PERFORMANCE POI ABR45631A OBJECTIVES SUGGESTED FOR REVIEW DUE TO LESS THAN 30 PERCENT MEMBERS PERFORMING MATCHED TASKS (1-48 MONTHS TAFMS)

POI ABR45631A OBJECTIVES/MATCHED TASKS	CODE	PERCENT MEMBERS PERFORMING* ALL 1ST ENL (N=457)	456X1A 1ST ENL (N=245)
XXI 1. Specialized Support Equipment Analysis			
1a. Explain the operation of the AN/ALM-194 countermeasure test set	B		
I357 Calibrate category II equipment		11	12
1b. Explain the operation of the AN/ALM-195 signal processor test set	B		
I313 Remove or install punch tapes		23	18
XXI 3. Operational Check Out and Alignment of Signal Processor			
3a. Using TO 12P3-2ALQ155-2 and WB KAV 416, perform the operational checkout of the CM-465/ALQ-155 Signal Processor in accordance with the TO	2b		
P761 Perform minimum performance checks on AN/ALQ-155 semiautomatic system LRUs		15	28
G313 Remove or install punch tapes		23	18

TABLE 24 (CONTINUED)

LOW PERFORMANCE POI ABR45631A OBJECTIVES SUGGESTED FOR REVIEW DUE TO LESS THAN 30 PERCENT MEMBERS PERFORMING MATCHED TASKS (1-48 MONTHS TAFMS)

POI ABR45631A OBJECTIVES/MATCHED TASKS	CODE	PERCENT MEMBERS PERFORMING* ALL 1ST ENL (N=457)	456X1A 1ST ENL (N=245)
XXI 4. Operational Check Out and Alignment of Control Indicator Programmer			
4a. Using TO 12P3-2ALQ155-2 and TO 12P3-2ALQ-155-2-1, and WB KAV 416, perform the operational checkout and alignment of the of the C-10130/ALQ-155 Control Indicator Programmer in accordance with the TO	2b		
P761 Perform minimum performance checks on AN/ALQ-155 semiautomatic system LRUs		15	28
P728 Align AN/ALQ-155 semiautomatic system LRUs		6	12
P778 Remove or install AN/ALQ-155 semiautomatic system LRU subassemblies or components		11	20
XXIII 1. Specialized Support Equipment Analysis			
1a. Describe the operation of the AN/ALM-134 Base Maintenance test set	B		
I366 Inspect category II or III electronic warfare support equipment		11	12
1b. Explain the differences bewteen the drawers in the AN/ALM-134 Base Maintenance test set	B		
I366 Inspect category II or III electronic warfare support equipment		11	12

POI E3ABR45631B: Of the 35 POI objectives that were matched with survey data, 14 were not supported, having fewer than 30 percent of B-shred first-enlistment personnel performing the matched tasks. This equates to 91.5 out of 706 total course hours. Of the 91.5 unsupported course hours, 58.5 of those hours or eight objectives are performance-level objectives. The areas not supported include sections in the common and B-shred specific blocks of instruction. As shown in Table 23, 78 hours or 14 objectives which were not supported are from the common course; 45 hours of which are performance-level objectives. The other 13.5 hours not supported are from the 274 unique B-shred course hours. This objective, which has 18 percent of the B-shred first-enlistment personnel performing the matched task, is shown below:

XXI. 2b. Working as a group; using TO 12P3-2ALQ119-82-1, TO 33D7-13-66-21, and AN/ALM-126C Test Console, and Training Software, run the complete training software program.

Sixty-five tasks performed by 30 percent or more A-shred first-enlistment personnel and 58 tasks performed by 30 percent or more B-shred first-enlistment personnel were not matched to POI objectives. Thirty-eight of the 65 and 58 unreferenced tasks are the same. These common tasks related to general EW flight, shop, and airborne maintenance. The few unique high performance A-shred tasks involved semiautomatic and dispensing systems, such as isolating malfunctioning AN/ALQ-172 semiautomatic system LRUS on aircraft and visually inspecting AN/ALE-24 dispensing system LRUs. The few unique high performance B-shred tasks involved the AN/ALE-40 dispensing system LRUs. Examples of these and the common tasks with first enlistment performance data are listed in Table 25. In addition to high levels of performance, several of these tasks are rated high in terms of TE and TD.

Training personnel are encouraged to review the computer printouts of the POI matched with survey data, as they undertake future revisions of the POI. Particular emphasis should be placed on reviewing the objectives shared by both A- and B-shred for possible expansion to include the high performance tasks not matched.

Review of Electronic Principles (EP)

The Electronics Principle Inventory (EPI) (AFPT-90-EPI-825) contains 712 electronic principles, skills, and equipment questions covering 39 electronic principle subject areas. Between March 1987 and September 1988, the EPI was administered to fully-qualified, 5-skill level 456X1A/B personnel who responded "Yes" or "No" to the 712 EPI items, indicating the electronic principles, skills, and equipment they use in their present job. Additionally, subject-matter experts matched the EPI items to STS1, Electronic Fundamentals/Applications, dated February 1987, and POI E3AQR30020-009, dated June 1987. The 456X1A/B criterion groups' responses were added to the EPI document, and the final product analyzed. A comprehensive EPI Report for those AFSCs taught at Keesler Technical Training Center was published in March 1990.

TABLE 25

EXAMPLES OF TASKS PERFORMED BY 30 PERCENT OR MORE
AFSC 456X1A/B MEMBERS AND NOT REFERENCED TO POIs
(1-48 MONTHS TAFMS)

TASKS		PERCENT MEMBERS PERFORMING		
		ALL 1ST ENL (N=457)	456X1A 1ST ENL (N=245)	456X1B 1ST ENL (N=211)
G288	Perform soldering tasks	83	82	84
G297	Remove or install coaxial cable connectors	80	78	84
G316	Safety wire units	76	64	91
G277	Change fuses or circuit breakers	75	78	72
G303	Remove or install knobs or controls	69	75	63
F229	Complete AF Forms 2005 (Issue/Turn in Request)	64	59	70
G293	Practice electrostatic discharge (ESD) procedures	63	59	68
G295	Program electronic warfare systems	63	51	76
G308	Remove or install multiconductor cable connectors	63	61	65
G323	Transport classified equipment	61	58	69
G287	Perform phase inspections of electronic warfare equipment	59	53	66
G324	Transport electronic warfare systems	58	48	70
H334	Perform periodic inspections of electronic warfare equipment	55	46	66
H341	Remove or install antennas	54	50	54
W1033	Operate aerospace ground equipment (AGE), such as power units, heaters, light carts, or lifts	54	45	64
H343	Remove or install equipment to facilitate other maintenance	52	50	55
W1025	Apply power to aircraft	51	47	56
H342	Remove or install electronic warfare radomes	50	44	58
I379	Remove or install printed circuit board components	47	44	51
F248	Inventory equipment, tools, or supplies, other than aircraft equipment or consolidated tool kits (CTK)	45	39	62
G285	Lubricate equipment components	44	50	38
G301	Remove or install heat splices	42	32	55
G299	Remove or install desiccants	39	52	23
I374	Perform corrosion control treatments on electronic warfare equipment in the shop	39	29	50

TABLE 25 (CONTINUED)

EXAMPLES OF TASKS PERFORMED BY 30 PERCENT OR MORE
AFSC 456X1A/B MEMBERS AND NOT REFERENCED TO POIs
(1-48 MONTHS TAFMS)

TASKS		PERCENT MEMBERS PERFORMING		
		ALL 1ST ENL (N=457)	456X1A 1ST ENL (N=245)	456X1B 1ST ENL (N=211)
H335	Perform phase inspections on aircraft	37	36	39
I361	Fabricate coaxial cables	35	34	46
H346	Remove or install waveguide assemblies	34	44	22
G284	Load or unload chaff magazines	33	51	11
N664	Perform minimum performance checks on AN/ALE-24 dispensing system LRUs	31	31	0
H348	Upload or download chaff magazines on or off aircraft	27	43	9
H338	Perform stray voltage checks on flare systems	26	36	14
H337	Perform special inspections of electronic warfare equipment	26	28	46
H329	Perform cable frequency response and standing wave ratio (SWR) checks	25	15	37
K454	Isolate malfunctioning AN/ALE-40 dispensing system LRUs on aircraft	22	7	38
N655	Clean and lubricate AN/ALE-40 dispensing system LRUs	20	7	36
K450	Isolate malfunctioning AN/ALE-20 dispensing system LRUs or aircraft	19	36	0
N677	Visually inspect AN/ALE-20 dispensing system LRUs	19	35	0
N678	Visually inspect AN/ALE-24 dispensing system LRUs	19	35	0
P792	Visually inspect AN/ALQ-153 semiautomatic system LRUs	19	36	0
J411	Perform preflight or postflight operational checks on AN/ALQ-155 semiautomatic systems	18	33	0
J389	Perform preflight operational checks on AN/ALE-20 dispensing system.	17	32	0
K451	Isolate malfunctioning AN/ALE-24 dispensing system LRUs LRUs on aircraft	17	32	0
K463	Isolate malfunctioning AN/ALQ-172 semiautomatic system on aircraft	17	31	0
M639	Visually inspect AN/ALT-32 transmitting system LRUs	16	31	0

Based on the resulting data, AFSC 456X1A/B personnel were found covering a wide range of electronic areas where 30 percent or more 45651A or 45651B airmen responded "yes" to performing in their job. Subject areas used by 30 percent or more of the respondents are displayed in Table 26. Highly performed areas include general electronics, various test equipment, and some computer devices. Thirty of the thirty-nine subject areas were used by EW systems personnel. These data can be useful to subject-matter experts when evaluating areas of their training concerned with electronic fundamentals or principles.

JOB SATISFACTION ANALYSIS

Comparisons of group perceptions of their jobs provide career ladder managers with a means toward understanding some of the factors affecting job performance of today's airmen. These perceptions are gathered from incumbents' responses to five job satisfaction questions covering job interest, perceived utilization of talents, perceived utilization of training, sense of accomplishment, and reenlistment intentions. The responses of the current survey sample are then analyzed by making several comparisons: (1) among TAFMS groups of a comparative sample of personnel from other Mission Equipment Maintenance specialists surveyed in 1990 (AFSCs 30XXX, 316X3, 324X0, 34XXX, 36XXX, 404X0, 41XXX, 45XXX, 46XXX), (2) between current and previous survey TAFMS groups, and (3) across specialty job groups identified in the SPECIALTY JOBS section of this report.

First-enlistment (1-48 months TAFMS), second-enlistment (49-96 months TAFMS), and career (97+ months TAFMS) group data are listed in Table 27 and are compared to corresponding enlistment groups from other Mission Equipment Maintenance AFSCs surveyed during the previous calendar year. These data give a relative measure of how the job satisfaction of AFSC 456X1 personnel compares with that of other similar Air Force specialties. Generally, enlistment groups of the DAFSC 456X1 and comparative samples indicate similar levels of job satisfaction across four of the five indicators. However, perceived utilization of training is dramatically lower for AFSC 456X1 TAFMS groups then the comparative sample. Specifically, only 70 percent of EW systems first-enlistment personnel indicated positive opinions of utilization of training compared to 83 percent of first-enlistment (1-48 months TAFMS) members in other Mission Equipment Maintenance career ladders, a difference of 13 percentage points. Similarly, differences between second-enlistment (49-96 months TAFMS) and career (97 + months TAFMS) members of EW systems personnel and the comparative sample are 14 and 17 percentage points, respectively. Utilization of talent was also perceived to be slightly lower by EW systems career personnel, with a difference of 8 percent. The other indicators, job interest, sense of accomplishment, and reenlistment intentions, are within five percentage points of other Mission Equipment Maintenance personnel in all TAFMS groups.

An indication of changes in job satisfaction perceptions within the career ladder is provided in Table 28 where TAFMS group data for 1991 AFSC 456X1 survey respondents are presented, along with data from respondents to the last occupational survey report of the career ladder. Generally, percep-

TABLE 26

ELECTRONIC PRINCIPLES USED BY 30 PERCENT OR MORE OF AFSC 45651A AND 45651B PERSONNEL

PRINCIPLE	PERCENT USING * 45651A (N=710)	45651B (N=700)
GENERAL ELECTRONIC/ELECTRICITY		
A1. Direct/Alternating Current	95	94
A2. Electro/Mechanical Devices	44	-
A3. Solid State Circuits and Devices	70	73
A4. Tubes	41	44
A5. Soldering or Solderless Connections	95	93
TEST EQUIPMENT		
B1. Multimeters	98	93
B2. Oscilloscopes	82	74
B3. Signal (Function) Generators	70	64
B4. Test Equipment Types	93	79
AMPLIFIER CIRCUITS		
C1. Transistor Amplifier Circuits	50	46
C2. Transistor Amplifier Stabilization Circuits	30	-
C3. Coupling Circuits	41	36
C5. Operationsl Amplifiers	36	-
POWER SUPPLIES		
D1. Power Supply Circuits	75	71
D2. Power Supply Filters	40	31
D3. Power Supply Voltage Refulators	44	40
REACTIVE CIRCUITS		
E2. Frequency Sensitive Filters	42	44
WAVESHAPING/GENERATING CIRCUITS		
F1. Oscillators	52	52
F2. Multivibrators	31	-
F3. Waveshaping Circuits	34	38

* Percent shown is highest percent reported for an item within the subject area

- Denotes iess than 30 percent members using

TABLE 26 (CONTINUED)

ELECTRONIC PRINCIPLES USED BY 30 PERCENT OR MORE OF AFSC 45651A AND 45651B PERSONNEL

PRINCIPLE	PERCENT USING * 45651A (N=710)	45651B (N=700)
COMPUTERS, DIGITAL CIRCUITS, AND DEVICES		
G1. Digital Logic Numbering Systems and Functions	52	42
G2. Computers	49	62
G3. Digital Circuits	35	-
G4. Digital to Analog and Analog to Digital Converters	37	-
TRANSMISSION/RECEPTION CIRCUITS, DEVICES, AND SYSTEMS		
H1. Connections	51	51
H2. Microwave Oscillators and Amplifiers	32	37
H4. Transmitters and Receivers	44	34
H5. Antennas	30	41
RADIO FREQUENCY MEASUREMENTS OR CALCULATIONS		
I1. RF Measurements	57	65
I2. RF Calculations	50	50

* Percent shown is highest percent reported for an item within the subject area

- Denotes less than 30 percent members using

TABLE 27

COMPARISON OF JOB SATISFACTION DATA BY 456X1A/B AND COMPARATIVE SAMPLE GROUPS*
(PERCENT MEMBERS RESPONDING)

	1-48 MOS TAFMS		49-96 MOS TAFMS		97+ MOS TAFMS	
	456X1 (N=457)	1990 COMP SAMPLE (N=5,163)	456X1 (N=550)	1990 COMP SAMPLE (N=3,559)	456X1 (N=1,180)	1990 COMP SAMPLE (N=5,209)
EXPRESSED JOB INTEREST:						
INTERESTING	73	68	71	69	70	72
SO-SO	16	19	16	19	14	17
DULL	11	13	13	11	16	10
PERCEIVED USE OF TALENTS:						
FAIRLY WELL TO PERFECTLY	78	75	74	78	73	81
LITTLE OR NOT AT ALL	21	26	25	21	27	18
PERCEIVED USE OF TRAINING:						
FAIRLY WELL TO PERFECTLY	70	83	65	79	61	78
LITTLE OR NOT AT ALL	29	17	34	21	39	22
SENSE OF ACCOMPLISHMENT FROM WORK:						
SATISFIED	69	68	66	68	65	68
NEUTRAL	15	15	13	13	11	11
DISSATISFIED	16	17	21	18	24	21
REENLISTMENT INTENTIONS:						
YES, OR PROBABLY YES	60	56	65	66	74	75
NO, OR PROBABLY NO	39	44	35	33	15	11
PLAN TO RETIRE	0	-	0	-	10	14

* Comparative sample is composed of all Mission Equipment Maintenance career ladders surveyed in 1990 (includes AFSCs 30XXX, 316X3, 324X0, 34XXX, 36XXX, 404X0, 41XXX, 45XXX, 46XXX)

- Denotes less than .5 percent

NOTE: Columns may not add to 100 percent due to nonresponse and rounding

TABLE 28

COMPARISON OF 456X1A/B JOB SATISFACTION INDICATORS FOR
CURRENT AND PREVIOUS SURVEY
(PERCENT MEMBERS RESPONDING)

	1-48 MOS TAFMS		49-96 MOS TAFMS		97+ MOS TAFMS	
	1991 456X1 (N=457)	1984 328X3 (N=1351)	1991 456X1 (N=550)	1984 328X3 (N=341)	1991 456X1 (N=1180)	1984 328X3 (N=434)
EXPRESSED JOB INTEREST:						
INTERESTING	73	83	71	76	70	74
SO-SO	16	11	16	14	14	15
DULL	11	6	13	10	16	8
PERCEIVED USE OF TALENTS:						
FAIRLY WELL TO PERFECTLY	78	82	74	77	73	81
LITTLE OR NOT AT ALL	21	18	25	23	27	19
PERCEIVED USE OF TRAINING:						
FAIRLY WELL TO PERFECTLY	70	75	65	70	61	69
LITTLE OR NOT AT ALL	29	24	34	30	39	30
SENSE OF ACCOMPLISHMENT FROM WORK:						
SATISFIED	69	74	66	65	65	66
NEUTRAL	15	12	13	12	11	10
DISSATISFIED	16	14	21	22	24	23
REENLISTMENT INTENTIONS:						
YES, OR PROBABLY YES	60	59	65	67	74	74
NO, OR PROBABLY NO	39	40	35	31	15	10
PLAN TO RETIRE	0	0	0	0	10	14

NOTE: Columns may not add to 100 percent due to nonresponse and rounding

tions of current job satisfaction are similar to slightly lower than those in the 1984 OSR. First-enlistment personnel from the 1991 sample expressed slightly lower levels of job interest when compared to the 1984 sample. Perceived utilization of talent and training by career (97+ months) members also has slightly decreased. These differences between the 1991 and 1984 responses are relatively minor, with all variations within a few percentage points. Overall, analysis of job satisfaction indicators suggests incumbents of the 456X1 career ladder appear satisfied with their job.

Table 29 presents job satisfaction data for the major jobs (clusters) identified in the career ladder structure for AFSC 456X1. An examination of these data can reveal the influences performing certain jobs may have on overall job satisfaction. Job satisfaction indicators for the specialty job groups suggest members across the career ladder are generally content. While most jobs are not perceived as "Dull," only four clusters are considered "Interesting" by greater than 80 percent of the job incumbents. These jobs included:

Pod System Maintenance I	(82 percent)
B-52G/H Semiautomatic Systems Maintenance	(86 percent)
Flightline Maintenance (RC-135U/V/W)	(89 percent)
Airborne Maintenance	(89 percent)

Utilization of talents and training is rated high by members of the AN/ALE-40 Dispensing System Maintenance and Flightline Maintenance clusters. However, greater than 50 percent of the members of B-52G/H General Systems Maintenance and System-27 Maintenance jobs perceive low use of talents and training. Similarly, the members in the Supply cluster perceive low use of training. Most jobs appear to offer a sense of accomplishment with a high of 82 percent of the members in the Airborne Maintenance and Career Field Managers clusters responding positively. Members of the Supply cluster indicated dissatisfaction in regard to their sense of accomplishment in their jobs. Finally, reenlistment intentions are average to high for all major specialty jobs, with greater than 50 percent of each cluster responding with positive plans to reenlist. As a whole, members in the Pod System Maintenance I, B-52G/H Semiautomatic Systems Maintenance, and Flightline Maintenance clusters reflect the highest levels of satisfaction when compared to the other jobs. Over 80 percent of the members in each cluster expressed high job interest and "Fairly Well to Perfect" use of talents and training.

ANALYSIS OF CONUS VERSUS OVERSEAS GROUPS

Comparisons were made between the tasks performed and the background data for DAFSC 45651 personnel assigned to the continental United States (CONUS, N=798) versus those assigned overseas (N=452). An examination of the tasks and duties performed by the two groups indicates only minor differences exist in time spent performing tasks and number of tasks performed.

TABLE 29

JOB SATISFACTION DATA BY CAREER LADDER JOBS
(PERCENT MEMBERS RESPONDING)

	POD I SYSTEMS CLUSTER (N=265)	AN/ALQ-188 POD IJT (N=13)	POD II SYSTEMS CLUSTER (N=41)	RECEIVING SYSTEMS CLUSTER (N=406)	AN/ALE-40 DISPENSING CLUSTER (N=20)	CC IN-FLIGHT CLUSTER (N=25)	CC SHOP IJT (N=38)
EXPRESSED JOB INTEREST:							
INTERESTING	82	69	71	67	70	56	92
SO-SO	10	15	20	21	25	8	3
DULL	8	15	10	12	5	36	5
PERCEIVED USE OF TALENTS:							
FAIRLY WELL TO PERFECTLY	88	62	73	74	90	56	87
LITTLE OR NOT AT ALL	12	38	27	26	10	44	13
PERCEIVED USE OF TRAINING:							
FAIRLY WELL TO PERFECTLY	85	46	78	65	95	48	79
LITTLE OR NOT AT ALL	15	54	22	34	5	52	21
SENSE OF ACCOMPLISHMENT:							
SATISFIED	77	54	61	66	65	56	74
NEUTRAL	8	23	17	13	30	4	13
DISSATISFIED	15	23	22	22	5	40	13
REENLISTMENT INTENTIONS:							
YES, OR PROBABLY YES	70	69	66	69	40	80	76
NO, OR PROBABLY NO	28	31	32	30	60	20	24
PLAN TO RETIRE	2	0	2	1	0	0	0

NOTE: Columns may not add to 100 percent due to nonresponse and rounding

TABLE 29 (CONTINUED)

JOB SATISFACTION DATA BY CAREER LADDER JOBS
(PERCENT MEMBERS RESPONDING)

	AN/ALQ-125 TEREC IJT (N=7)	CUT CLUSTER (N=28)	TAF JOB CONTROL IJT (N=6)
EXPRESSED JOB INTEREST:			
INTERESTING	86	50	100
SO-SO	0	14	0
DULL	14	36	0
PERCEIVED USE OF TALENTS:			
FAIRLY WELL TO PERFECTLY	86	50	100
LITTLE OR NOT AT ALL	14	50	0
PERCEIVED USE OF TRAINING:			
FAIRLY WELL TO PERFECTLY	86	54	17
LITTLE OR NOT AT ALL	14	46	83
SENSE OF ACCOMPLISHMENT:			
SATISFIED	86	50	83
NEUTRAL	0	11	17
DISSATISFIED	14	39	0
REENLISTMENT INTENTIONS:			
YES, OR PROBABLY YES	57	75	50
NO, OR PROBABLY NO	43	25	33
PLAN TO RETIRE	0	0	17

NOTE: Columns may not add to 100 percent due to nonresponse and rounding

TABLE 29 (CONTINUED)

JOB SATISFACTION DATA BY CAREER LADDER JOBS
(PERCENT MEMBERS RESPONDING)

	SEMIAUTO SYSTEMS CLUSTER (N=126)	B-52G/H SYSTEMS CLUSTER (N=183)	SYSTEM-27 CLUSTER (N=16)	IN-FLIGHT RC-135 IJT (N=7)	FLIGHTLINE RC-135 CLUSTER (N=37)	FLIGHTLINE CONTROL IJT (N=7)	MAINT ANALYSIS IJT (N=5)
EXPRESSED JOB INTEREST:							
INTERESTING	86	46	38	100	89	71	60
SO-SO	9	27	25	0	11	14	20
DULL	6	27	38	0	0	14	20
PERCEIVED USE OF TALENTS:							
FAIRLY WELL TO PERFECTLY	84	50	31	57	94	57	80
LITTLE OR NOT AT ALL	16	50	69	43	5	43	20
PERCEIVED USE OF TRAINING:							
FAIRLY WELL TO PERFECTLY	86	39	19	57	81	14	60
LITTLE OR NOT AT ALL	13	61	81	43	19	86	40
SENSE OF ACCOMPLISHMENT:							
SATISFIED	79	44	19	86	81	71	40
NEUTRAL	7	21	31	0	8	0	40
DISSATISFIED	13	35	50	14	11	29	20
REENLISTMENT INTENTIONS:							
YES, OR PROBABLY YES	73	63	63	100	81	57	60
NO, OR PROBABLY NO	25	33	38	0	16	14	20
PLAN TO RETIRE	2	3	0	0	3	29	20

NOTE: Columns may not add to 100 percent due to nonresponse and rounding

TABLE 29 (CONTINUED)

JOB SATISFACTION DATA BY CAREER LADDER JOBS
(PERCENT MEMBERS RESPONDING)

	ESC SYSTEMS CLUSTER (N=36)	GENERAL SHOP CLUSTER (N=37)	AIRBORNE MAINT CLUSTER (N=128)	SUPPORT EQUIP IJT (N=11)	TGIF MAINT IJT (N=7)	ESC JOB CONTROL IJT (N=7)
EXPRESSED JOB INTEREST:						
INTERESTING	72	65	89	64	43	57
SO-SO	8	19	5	9	0	29
DULL	19	16	5	27	57	14
PERCEIVED USE OF TALENTS:						
FAIRLY WELL TO PERFECTLY	64	76	93	55	43	57
LITTLE OR NOT AT ALL	36	24	7	45	57	43
PERCEIVED USE OF TRAINING:						
FAIRLY WELL TO PERFECTLY	61	54	75	36	14	0
LITTLE OR NOT AT ALL	39	46	25	64	86	100
SENSE OF ACCOMPLISHMENT:						
SATISFIED	58	70	82	45	29	57
NEUTRAL	17	11	9	18	43	29
DISSATISFIED	25	19	9	36	29	14
REENLISTMENT INTENTIONS:						
YES, OR PROBABLY YES	64	65	74	55	57	71
NO, OR PROBABLY NO	36	32	25	45	43	29
PLAN TO RETIRE	0	3	1	0	0	0

NOTE: Columns may not add to 100 percent due to nonresponse and rounding

TABLE 29 (CONTINUED)

JOB SATISFACTION DATA BY CAREER LADDER JOBS
(PERCENT MEMBERS RESPONDING)

	TRAINING CLUSTER (N=78)	CRSWARE DVLPMT IJT (N=8)	SUPPLY CLUSTER (N=65)	TO MGMT IJT (N=5)	QC CLUSTER (N=39)	SUPV CLUSTER (N=274)	CF MGRS CLUSTER (N=61)
EXPRESSED JOB INTEREST:							
INTERESTING	78	0	57	20	77	77	79
SO-SO	9	50	17	40	13	13	16
DULL	13	50	26	40	10	10	5
PERCEIVED USE OF TALENTS:							
FAIRLY WELL TO PERFECTLY	84	13	57	40	85	81	82
LITTLE OR NOT AT ALL	17	88	43	60	15	19	18
PERCEIVED USE OF TRAINING:							
FAIRLY WELL TO PERFECTLY	85	13	43	20	52	68	54
LITTLE OR NOT AT ALL	15	88	57	80	49	32	46
SENSE OF ACCOMPLISHMENT:							
SATISFIED	65	25	51	40	79	70	82
NEUTRAL	13	25	15	40	3	11	7
DISSATISFIED	22	50	34	20	18	19	11
REENLISTMENT INTENTIONS:							
YES, OR PROBABLY YES	76	88	66	40	77	72	64
NO, OR PROBABLY NO	13	13	23	40	15	11	13
PLAN TO RETIRE	12	0	11	20	9	17	23

NOTE: Columns may not add to 100 percent due to nonresponse and rounding

A review of the average number of tasks performed by overseas and CONUS groups indicates that overseas personnel tend to perform slightly more tasks (100 tasks) than their CONUS counterparts (94 tasks). Data also indicate a higher percent of CONUS EW System specialists maintain semiautomatic systems. CONUS personnel also spend a greater percent of their job time training. No real differences exist in equipment used or operated by both groups. Comparisons of general background data reveal no real differences in characteristics between the two groups. Job satisfaction indicators are also highly similar. Greater than 65 percent of both groups responded positively to the five satisfaction indicators.

WRITE-IN COMMENTS

Occupational survey booklets include blank pages on which career ladder members may write in additional tasks or make comments about any subject. Review of job inventory write-in comments from survey sample respondents indicates a general concern about utilization. In general, several respondents felt they were underutilized either due to CUT tasks, such as performing crew chief duties, extra duties, or lack of application of their technical school training. Also a few of these respondents expanded their comments to note the difficulty poor utilization places on testing for promotion. The following are a few sample comments expressing these concerns:

> "The majority of EWS Personnel in my unit are primarily used for extra duties such as debrief, CTK, and assistant crew chief."
>
> "We're being turned into crew chiefs and are expected to perform their functions. The proficiency training we should be doing is coming in last place because we are being utilized elsewhere. Specialists will be nonexistent when needed for a particularly hard task, but we'll be able to walk a wing."
>
> "They have basically turned all specialists into assistant Crew Chiefs. I have been working ECM for five years and have never learned any shop maintenance."
>
> "No matter what we, as the supervisor/managers say, the fighter wings, bomb wings, and major commands are going to continue to throw away training, time, and money so trained EW personnel can be used to push papers and be crew chiefs. Train them to be EW technicians and let them do their jobs!"
>
> "I feel that I am not using my education and training that I learned in tech school.

"The time I spent working in my career field was a complete waste of training. I attended tech school for close to eight months; 12 blocks of which I studied electronics. I have yet to use my electronics training."

"I attended tech training for 10 months on something that I do not do on my job. I was mostly trained on In-Shop procedures and I work on the flightline. Also, I will be required to recall my training when I WAPS test."

"I'm not being utilized in my career field. Therefore, it makes testing for promotion very difficult."

These representative comments concerning low levels of satisfaction due to poor utilization of training are supported by the job satisfaction data shown in Table 27. When compared to other Mission Equipment Maintenance personnel, AFSC 456X1 members indicate substantially lower levels of perceived utilization of training. The JOB SATISFACTION ANALYSIS section of this report contains a complete discussion of this topic.

IMPLICATIONS

The primary purpose of this Occupational Survey Report is to assist verification of utilization and training of the Electronic Warfare Systems specialty.

Analysis of the 456X1 career ladder structure identified 18 clusters and 12 IJTs. Thirteen of the clusters and 10 IJTs were MAJCOM specific. Ten jobs were performed primarily by TAF, 7 by SAC, and 6 by ESC. These jobs were identified by the specific EW systems maintained. The other jobs identified were involved with nontechnical support functions, such as training and supervision, and were dispersed throughout the different MAJCOMs. The results of the career ladder structure analysis were compared to the previous study conducted in 1984. Despite equipment and technological advances, the fundamental jobs have remained generally the same. All jobs identified in the previous survey were also recognized in the current survey. However, seven jobs identified in the current survey, including four technical jobs: CUT Cluster, System-27 Maintenance Cluster, Support Equipment Maintenance Cluster, and TGIF Maintenance IJT, were not identified in the previous career ladder structure.

The AFR 39-1 specialty descriptions for the Electronic Warfare Systems specialty were analyzed to determine the adequacy of coverage for career ladder duties. Overall, each description provided a general coverage of the various specialty jobs. However, mobility and CUT functions are performed by career ladder members but are not discussed in the specialty descriptions. Flightline and airborne maintenance activities were also not clearly identi-

fied. Finally, the specialty description focuses on certain types of equipment, such as signal analysis and direction finders, which are not being maintained by significant percentages of career ladder members. A thorough review of the specialty descriptions is clearly warranted.

Initial analysis of the STS, examining experience (TAFMS), and DAFSC groups, reveals the document should also be reviewed. Sixty-two line items were not supported by survey data, and several tasks with relatively high percent members performing were not covered in the STS. Likewise, both A- and B-shred POIs reflected objectives with low percentages of appropriate personnel performing matched tasks. Several tasks with sufficient percent members performing were also not referenced to the POIs. Training personnel should look at all areas of the STS and POIs for possible revision to include additional elements to cover high performance tasks currently not referenced to the STS and POIs, as well as possible deletion of items or objectives referenced to low performance tasks. Technical training personnel should also review the data collected on the use of test or shop equipment and support or ground equipment in the career ladder to ensure the appropriate training is provided.

The examination of responses to job satisfaction questions revealed that satisfaction has remained constant or declined slightly since the 1984 survey. The 456X1 career ladder also reflects similar or slightly lower levels of satisfaction when compared to other mission equipment maintenance specialists, especially in the area of utilization of training. Indicators across career ladder specialty jobs also exhibit similar levels of satisfaction among most members. The Pod System Maintenance I, B-52G/H Semiautomatic Systems Maintenance, and Flightline Maintenance clusters reflected the highest level of satisfaction when compared to other jobs.

The findings of this OSR come directly from survey data collected from Electronic Warfare Systems Specialists worldwide. These data are readily available to training and utilization personnel, functional managers, and any other interested parties having a need for such information. Much of the data are compiled into extracts which are excellent tools in the decision-making process. These data extracts should be used whenever a training or utilization decision is made.

APPENDIX A

SELECTED REPRESENTATIVE TASKS AND BACKGROUND CHARACTERISTICS BY CAREER LADDER SPECIALTY JOB GROUPS

TABLE I

POD SYSTEMS MAINTENANCE I
(STG 262)

VARIATIONS: AN/ALQ-131 Pod Systems (STG 581)
AN/ALQ-119 Pod Systems (STG 499)
AN/ALQ-184 Pod Systems (STG 532)
QRC Pod Systems (STG 503)

OF PEOPLE IN GROUP: 265
% OF TOTAL SAMPLE: 12%

ASSIGNED CONUS: 57%
MAJCOM: 55% TAC, 25% USAFE

AVERAGE TAFMS: 80 months
AVERAGE TICF: 69 months
AVERAGE PAYGRADE: E-4/5

AVERAGE # OF TASKS: 93
AVERAGE # PERSONS SUPERVISE: 1

WORK AREA: Electronic Warfare Shop
ORGANIZATIONAL LEVEL: Squadron

AIRCRAFT SUPPORTED: 37% F-16A, 30% F-16B, 22% A-10A
UNIQUE TEST/SHOP EQUIPMENT USED: Blower assemblies
Pressure gauges
Interface test sets
UNIQUE SUPPORT EQUIPMENT USED: AN/ALM-126C
AN/ALM-186A
AN/ALM-187
AN/ALM-188
MU-677

TOP DUTIES

31%	G	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE
13%	I	PERFORMING ELECTRONIC WARFARE GENERAL SHOP MAINTENANCE
13%	O	MAINTAINING POD SYSTEMS
10%	F	PERFORMING SUPPLY AND EQUIPMENT FUNCTIONS
7%	E	PERFORMING ADMINISTRATIVE FUNCTIONS

TYPICAL TASKS		PMP
G288	Perform soldering tasks	97
G316	Safety wire units	97
G281	Inspect coaxial cables	95
G298	Remove or install coaxial cables	94
G295	Program electronic warfare systems	92
G297	Remove or install coaxial cable connectors	92
G314	Research technical order wiring or circuit diagrams	92
G317	Secure classified property	91
G282	Inspect waveguide assemblies	89
O686	Align AN/ALQ-131 pod system LRUs	89
F229	Complete AF Forms 2005 (Issue/Turn-In Request)	88
G289	Perform support equipment inspections	88
G306	Remove or install minor hardware, such as latches, screws, or hinges	88
G291	Perform visual inspection of antennas	86
G315	Research technical orders to identify components or items of equipment	85
I358	Clean air filters	83
I373	Operate overhead cranes	83
G293	Practice electrostatic discharge (ESD) procedures	81
G304	Remove or install light bulbs	80
G308	Remove or install multiconductor cable connectors	79
I376	Remove or install air filters	78
I374	Perform corrosion control treatments on electronic warfare equipment in the shop	76
G309	Remove or install multiconductor cables	74
G318	Service electronic warfare systems with coolants	74
G286	Perform antenna checkouts	73
I369	Inspect test bench mockups	73
G277	Change fuses or circuit breakers	71
G283	Interconnect test equipment with LRUs	71
I384	Repair test bench mockups	71
I379	Remove or install printed circuit board components	70

TABLE I (CONTINUED)

POD SYSTEMS MAINTENANCE I
(STG 262)

TYPICAL TASKS		PMP
G307	Remove or install mounting brackets or fixtures	68
G312	Remove or install nosecones or tailcones on pod systems	68
I359	Crate or uncrate equipment	68
I371	Isolate test bench mockup malfunctions	68
E220	Operate Core Automated Maintenance System (CAMS)	66
F265	Research microfiche files for supply requisition data	66
I382	Remove or install shop replaceable units	66
F227	Attach or annotate equipment status labels or tags, such as DD Forms 1574 (Serviceable Tag-Materiel)	65
G287	Perform phase inspections of electronic warfare equipment	65
E178	Annotate or complete AFTO Forms 349 (Maintenance Data Collection Record)	64
G324	Transport electronic warfare systems	64
E205	Initiate or complete automated Significant Historical Data records, such as AFTO Forms 95	5-
F248	Inventory equipment, tools, or supplies, other than aircraft equipment or consolidated tool kits (CTK)	58
0712	Remove or install AN/ALQ-131 pod system LRU subassemblies or components	55
I365	Ground test bench mockups	54
0698	Isolate malfunctioning AN/ALQ-131 pod system LRU subassemblies or components	54
0719	Visually inspect AN/ALQ-131 pod system LRUs	54
0705	Perform minimum performance checks on AN/ALQ-131 pod system LRUs	53
0692	Assemble or disassemble AN/ALQ-131 pod system LRUs	52
D123	Conduct OJT	
H334	Perform periodic inspections of electronic warfare equipment	42
0711	Remove or install AN/ALQ-119 pod system LRU subassemblies or components	32
0718	Visually inspect AN/ALQ-119 pod system LRUs	32
0685	Align AN/ALQ-119 pod system LRUs	31
0691	Assemble or disassemble AN/ALQ-119 pod system LRUs	31
0697	Isolate malfunctioning AN/ALQ-119 pod system LRU subassemblies or components	31

VARIATIONS

AN/ALQ-131 Pod System
STG 581

OF PEOPLE IN VARIATION: 141
% OF GROUP: 53%
AVERAGE # OF TASKS: 90
MAJCOM: 52% TAC, 48% PACAF

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: A-10A, F-16A/B, RF-4C
UNIQUE TEST/SHOP EQUIPMENT USED: Emission testers
Punch tape reader
UNIQUE SUPPORT EQUIPMENT USED: AN/ALM-186A, AN/ALM-187, AN/ALM-188, AN/ALM-192, HD-1094, MU-677, Computerized diagnostic test equipment, Standard memory loader verifier

TYPICAL TASKS		PMP
0712	Remove or install AN/ALQ-131 pod system LRU subassemblies or components	99
0698	Isolate malfunctioning AN/ALQ-131 pod system LRU subassemblies or components	98
0686	Align AN/ALQ-131 pod system LRUs	96
0705	Perform minimum performance checks on AN/ALQ-131 pod system LRUs	96
0719	Visually inspect AN/ALQ-131 pod system LRUs	96
0692	Assemble or disassemble AN/ALQ-131 pod system LRUs	92

TABLE I (CONTINUED)

AN/ALQ-119 Pod System
STG 499

OF PEOPLE IN VARIATION: 74
% OF GROUP: 28%
AVERAGE # OF TASKS: 97
MAJCOM: 50% TAC, 49% PACAF

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: F-16A/B
UNIQUE TEST/SHOP EQUIPMENT USED: Standing wave ratio meters
Vacuum gauges
Wattmeters
UNIQUE SUPPORT EQUIPMENT USED: N/A

TYPICAL TASKS		PMP
0711	Remove or install AN/ALQ-119 pod system LRU subassemblies or components	96
0697	Isolate malfunctioning AN/ALQ-119 pod system LRU subassemblies or components	93
0704	Perform minimum performance checks on AN/ALQ-119 pod system LRUs	93
0718	Visually inspect AN/ALQ-119 pod system LRUs	93
0685	Align AN/ALQ-119 pod system LRUs	92
0691	Assemble or disassemble AN/ALQ-119 pod system LRUs	92

AN/ALQ-184 Pod System
STG 532

OF PEOPLE IN VARIATION: 11
% OF GROUP: 4%
AVERAGE # OF TASKS: 72
MAJCOM: 82% TAC

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: A-10A, F-4E/D/G, RF-4C,
F-15A/B, F-16A/B, F-111E
UNIQUE TEST/SHOP EQUIPMENT USED: Logic state analyzers
Network state analyzers
UNIQUE SUPPORT EQUIPMENT USED: AN/ALM-233

TYPICAL TASKS		PMP
0706	Perform minimum performance checks on AN/ALQ-184 pod system LRUs	100
0713	Remove or install AN/ALQ-184 pod system LRU subassemblies or components	100
0720	Visually inspect AN/ALQ-184 pod system LRUs	100
0693	Assemble or disassemble AN/ALQ-184 pod system LRUs	91
0699	Isolate malfunctioning AN/ALQ-184 pod system LRU subassemblies or components	91
J395	Perform preflight operational checks on AN/ALQ-184 pod systems	82

QRC Pod System
STG 503

OF PEOPLE IN VARIATION: 28
% OF GROUP: 11%
AVERAGE # OF TASKS: 106
MAJCOM: 64% TAC, 36% MAC

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: A-10A, AC-130H, MC-130E, Other
UNIQUE TEST/SHOP EQUIPMENT USED: Variacs
UNIQUE SUPPORT EQUIPMENT USED: AN/ALM-177B
AN/APM-427
Computerized diagnostic test equipment

TABLE I (CONTINUED)

QRC Pod System
STG 503

TYPICAL TASKS		PMP
0723	Visually inspect QRC pod system LRUs	100
0689	Align QRC pod system LRUs	96
0702	Isolate malfunctioning QRC pod system LRU subassemblies or components	96
0716	Remove or install QRC pod system LRU subassemblies or components	93
0695	Assemble or disassemble QRC pod system LRUs	89
0709	Perform minimum performance checks on QRC pod system LRUs	86
G294	Pressurize equipment	82
M613	Align QRC transmitting system LRUs	79
W1033	Operate aerospace ground equipment (AGE), such as power units, heaters, light carts, or lifts	79
M644	Visually inspect QRC transmitting system LRUs	75
M621	Isolate malfunctioning QRC transmitting system LRU subassemblies or components	71
M636	Remove or install QRC transmitting system LRU subassemblies or components	68

TABLE II

AN/ALQ-188 POD SYSTEM MAINTENANCE
(STG 251)

VARIATIONS: N/A

OF PEOPLE IN GROUP: 13
% OF TOTAL SAMPLE: 0.5%

% ASSIGNED CONUS: 92%
MAJCOM: 54% TAC, 38% AFSC

AVERAGE TAFMS: 75 months
AVERAGE TICF: 74 months
AVERAGE PAYGRADE: E-4/5

AVERAGE # OF TASKS: 104
AVERAGE # PERSONS SUPERVISE: 1

WORK AREA: Electronic Warfare Shop
ORGANIZATIONAL LEVEL: Squadron

AIRCRAFT SUPPORTED: 69% F-4D, 62% F-4C, 54% F-4E, 54% F-15A/B, 46% F-16A, 38% A-7D/RF-4C/F-16B/T-33A

UNIQUE TEST/SHOP EQUIPMENT USED:
Blower assemblies
Interface test sets
Logic state analyzer
Pressure gauges
Variacs
Wattmeters
X-Y plotter

UNIQUE SUPPORT EQUIPMENT USED:

AN/ALM-14	AN/ALM-184
AN/ALM-58	AN/APM-427
AN/ALM-177B	AN/GLM-10

TOP DUTIES

25%	G	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE
11%	O	MAINTAINING POD SYSTEMS
10%	E	PERFORMING ADMINISTRATIVE FUNCTIONS
10%	I	PERFORMING ELECTRONIC WARFARE GENERAL SHOP MAINTENANCE
9%	F	PERFORMING SUPPLY AND EQUIPMENT FUNCTIONS
9%	H	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR AIRBORNE MAINTENANCE

TYPICAL TASKS		PMP
G281	Inspect coaxial cables	100
G288	Perform soldering tasks	100
G291	Perform visual inspection of antennas	100
G298	Remove or install coaxial cables	100
G312	Remove or install nosecones or tailcones on pod systems	100
G316	Safety wire units	100
G317	Secure classified property	100
E030	Initiate or complete aircraft maintenance forms, such as AFTO Forms 781 series	92
G306	Remove or install minor hardware, such as latches, screws, or hinges	92
G314	Research technical order wiring or circuit diagrams	92
G324	Transport electronic warfare systems	92
K465	Isolate malfunctioning AN/ALQ-188 pod systems on aircraft	92
J414	Perform preflight or postflight operational checks on AN/ALQ-188 pod systems	92
0687	Align AN/ALQ-188 pod system LRUs	
0700	Isolate malfunctioning AN/ALQ-188 pod system LRU subassemblies or components	92
0707	Perform minimum performance checks on AN/ALQ-188 pod system LRUs	92
0714	Remove or install AN/ALQ-188 pod system LRU subassemblies or components	92
0721	Visually inspect AN/ALQ-188 pod system LRUs	92
G283	Interconnect test equipment with LRUs	85
H352	Upload or download electronic warfare pods using MJ-1 or MJ-4 jammers or hydraulic stands	85
E220	Operate Core Automated Maintenance System (CAMS)	77
F265	Research microfiche files for supply requisition data	77
I382	Remove or install shop replaceable units	77
W1025	Apply power to aircraft	62
W1033	Operate aerospace ground equipment (AGE), such as power units, heaters, light carts, or lifts	62
H350	Upload or download drones	54

TABLE III

POD SYSTEMS MAINTENANCE II
(STG 46)

VARIATIONS: AN/ALQ-131 Pod Systems (STG 196)
AN/ALQ-119 Pod Systems (STG 124)
QRC Systems (STG 205)

OF PEOPLE IN GROUP: 41
% OF TOTAL SAMPLE: 2%

% ASSIGNED CONUS: 56%
MAJCOM: 54% TAC, 22% PACAF, 20% USAFE

AVERAGE TAFMS: 98 months
AVERAGE TICF: 85 months
AVERAGE PAYGRADE: E-4/5

AVERAGE # OF TASKS: 41
AVERAGE # PERSONS SUPERVISE: 1

WORK AREA: Electronic Warfare Shop
ORGANIZATIONAL LEVEL: Squadron, Wing

AIRCRAFT SUPPORTED: 37% F-16B, 29% A-10A, 27% F-16A, 22% F-4E/G
UNIQUE TEST/SHOP EQUIPMENT USED: Pressure gauges
UNIQUE SUPPORT EQUIPMENT USED: AN/ALM-126C, AN/ALM-179, AN/ALM-186A, AN/ALM-187, AN/ALM-188

TOP DUTIES

22%	G	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE
20%	O	MAINTAINING POD SYSTEMS
10%	I	PERFORMING ELECTRONIC WARFARE GENERAL SHOP MAINTENANCE
8%	E	PERFORMING ADMINISTRATIVE FUNCTIONS
8%	F	PERFORMING SUPPLY AND EQUIPMENT FUNCTIONS

TYPICAL TASKS		PMP
F229	Complete AF Forms 2005 (Issue/Turn-In Request)	73
G316	Safety wire units	71
G295	Program electronic warfare systems	61
I373	Operate overhead cranes	59
G288	Perform soldering tasks	56
E178	Annotate or complete AFTO Forms 349 (Maintenance Data Collection Record)	54
G317	Secure classified property	54
G318	Service electronic warfare systems with coolants	49
E220	Operate Core Automated Maintenance System (CAMS)	44
F248	Inventory equipment, tools, or supplies, other than aircraft equipment or consolidated tool kits (CTK)	44
G314	Research technical order wiring or circuit diagrams	44
O718	Visually inspect AN/ALQ-119 pod system LRUs	42
E175	Annotate AFTO Forms 244 and 245 (Industrial/Support Equipment Record)	41
G315	Research technical orders to identify components or items of equipment	39
I358	Clean air filters	39
O686	Align AN/ALQ-131 pod system LRUs	39
E205	Initiate or complete automated Significant Historical Data records, such as AFTO Forms 95	37
G297	Remove or install coaxial cable connectors	37
O711	Remove or install AN/ALQ-119 pod system LRU subassemblies or components	37
O712	Remove or install AN/ALQ-131 pod system LRU subassemblies or components	37
O719	Visually inspect AN/ALQ-131 pod system LRUs	37
B69	Supervise Electronic Warfare Systems Specialist (AFSC 45651)	34
G306	Remove or install minor hardware, such as latches, screws, or hinges	34
H334	Perform periodic inspections of electronic warfare equipment	34
I379	Remove or install printed circuit board components	34
I382	Remove or install shop replaceable units	34
O691	Assemble or disassemble AN/ALQ-119 pod system LRUs	34
O692	Assemble or disassemble AN/ALQ-131 pod system LRUs	34
O698	Isolate malfunctioning AN/ALQ-131 pod system LRU subassemblies or components	34
O704	Perform minimum performance checks on AN/ALQ-119 pod system LRUs	34
H342	Remove or install electronic warfare radomes	32
O685	Align AN/ALQ-119 pod system LRUs	32
O697	Isolate malfunctioning AN/ALQ-119 pod system LRU subassemblies or components	32
O705	Perform minimum performance checks on AN/ALQ-131 pod system LRUs	32
V1019	Reconfigure pods for mission deployments	29
O702	Isolate malfunctioning QRC pod system LRU subassemblies	20

TABLE III (CONTINUED)

VARIATIONS

AN/ALQ 131 Pod Systems
STG 196

OF PEOPLE IN VARIATION: 14 — AVERAGE # OF TASKS: 40
% OF GROUP: 34% — MAJCOM: 50% TAC, 50% USAFE

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: A-10A, F-4D/E/G, F-16A/B
UNIQUE TEST/SHOP EQUIPMENT USED: Pulse analyzers
UNIQUE SUPPORT EQUIPMENT USED: AN/ALM-186A, AN/ALM-188, AN/ALM-187, AN/ALM-192, Computerized diagnostic test equipment

TYPICAL TASKS		PMP
0688	Align AN/ALQ-131 pod system LRUs	100
0712	Remove or install AN/ALQ-131 pod system LRU subassemblies or components	100
0719	Visually inspect AN/ALQ-131 pod system LRUs	100
0698	Isolate malfunctioning AN/ALQ-131 pod system LRU subassemblies or components	93
0692	Assemble or disassemble AN/ALQ-131 pod system LRUs	86
0705	Perform minimum performance checks on AN/ALQ-131 pod system LRUs	86

AN/ALQ-119 Pod Systems
STG 124

SUBVARIATIONS: Supervisors (STG 241)
Technicians (STG 253)

OF PEOPLE IN VARIATION: 16 — AVERAGE # OF TASKS: 44
% OF GROUP: 39% — MAJCOM: 50% PACAF, 38% TAC

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: A-10A, F-4D/E/G, F-16A/B
UNIQUE TEST/SHOP EQUIPMENT USED: Tunable band pass filter
UNIQUE SUPPORT EQUIPMENT USED: N/A

TYPICAL TASKS		PMP
0718	Visually inspect AN/ALQ-119 pod system LRUs	88
0704	Perform minimum performance checks on AN/ALQ-119 pod system LRUs	69
0711	Remove or install AN/ALQ 119 pod system LRU subassemblies or components	69
0685	Align AN/ALQ-119 pod system LRUs	63
0691	Assemble or disassemble AN/ALQ-119 pod system LRUs	63
0697	Isolate malfunctioning AN/ALQ-119 pod system LRU subassemblies or components	63
C114	Write EPRs	56
E220	Operate Core Automated Maintenance System (CAMS)	56
I379	Remove or install printed circuit board components	56
G506	Remove or install minor hardware, such as latches, screws, or hinges	50
B42	Counsel subordinates on personal or military matters	44
G312	Remove or install nosecones or tailcones on pod systems	44
I376	Remove or install air filters	44
J392	Perform preflight operational checks on AN/ALQ-119 pod systems	44
G309	Remove or install multiconductor cables	31

QRC Systems
STG 205

OF PEOPLE IN VARIATION: 5 — AVERAGE # OF TASKS: 42
% OF GROUP: 12% — MAJCOM: 100% TAC (Shaw)

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: A-10A, F-16B, Other

TABLE III (CONTINUED)

QRC Systems
STG 205

UNIQUE TEST/SHOP EQUIPMENT USED: Blower assemblies
Breakout boxes
Microwave amplifiers
Radar simulators
Vacuum gauges

UNIQUE SUPPORT EQUIPMENT USED: AN/ALM-26c AN/ALM-177B
AN/ALM-126 AN/APM-427
High power test sets

TYPICAL TASKS		PMP
H334	Perform periodic inspections of electronic warfare equipment	100
H337	Perform special inspections of electronic warfare equipment	80
L566	Perform minimum performance checks on QRC receiving system LRUs	80
M021	Isolate malfunctioning QRC transmitting system LRU subassemblies or components	80
0702	Isolate malfunctioning QRC pod system LRU subassemblies or components	80
V1003	Assemble or disassemble mockups or test stations for mission deployments	80
V1012	Pack individual mobility equipment for deployments	80

TABLE IV

RECEIVING SYSTEMS MAINTENANCE
(STG 291)

VARIATIONS: AN/ALE-40 Dispensing System (STG 674)
AN/ALR-46/46A Receiving System (STG 553)
AN/APR-47 Receiving System (STG 528)
AN/ALR-69 Receiving Systems (STG 623)
M -130E Flightline Systems (STG 335)
MC-130E Systems Shop Supervisors (STG 636)
Basic Shop Technicians (STG 576)
Cross Utilization Training (STG 547)
Support Equipment Supervisors (STG 723)

OF PEOPLE IN GROUP: 406
% OF TOTAL SAMPLE: 19%

% ASSIGNED CONUS: 58%
MAJCOM: 41% TAC, 23% USAFE, 23% MAC

AVERAGE TAFMS: 86 months
AVERAGE TICF: 75 months
AVERAGE PAYGRADE: E-4/5

AVERAGE # OF TASKS: 116
PERSONS SUPERVISE: 2

WORK AREA: Electronic Warfare Flightline
Electronic Warfare Shop
ORGANIZATIONAL LEVEL: Squadron

AIRCRAFT SUPPORTED: 40% A-10A, 24% F-4G
UNIQUE TEST/SHOP EQUIPMENT USED: Standing wave ratio meters
Time domain reflectometers
UNIQUE SUPPORT EQUIPMENT USED:

AN/ALM-177B	AN/APM-380
AN/ALM-184	AN/APM-427
AN/ALM-191	AN/APR-38
AN/APM-379	HP-8328A
Program read only memory	
Standard memory load verifier	

TOP DUTIES

26%	G	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE
13%	H	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR AIRBORNE MAINTENANCE
8%	W	PERFORMING CROSS UTILIZATION TRAINING (CUT) FUNCTIONS
7%	F	PERFORMING SUPPLY AND EQUIPMENT FUNCTIONS
6%	E	PERFORMING ADMINISTRATIVE FUNCTIONS
6%	I	PERFORMING ELECTRONIC WARFARE GENERAL SHOP MAINTENANCE
5%	L	MAINTAINING RECEIVING SYSTEMS
4%	N	MAINTAINING DISPENSING SYSTEMS

TYPICAL TASKS		PMP
E217	Maintain preventive maintenance inspection (PMI) listings	94
G281	Inspect coaxial cables	92
G297	Remove or install coaxial cable connectors	92
G314	Research technical order wiring or circuit diagrams	92
G316	Safety wire units	91
G288	Perform soldering tasks	89
G304	Remove or install light bulbs	89
G291	Perform visual inspection of antennas	88
G298	Remove or install coaxial cables	88
G283	Interconnect test equipment with LRUs	86
G303	Remove or install knobs or controls	86
G306	Remove or install minor hardware, such as latches, screws, or hinges	84
G323	Transport classified equipment	84
H341	Remove or install antennas	84
G308	Remove or install multiconductor cable connectors	82
G315	Research technical orders to identify components or items of equipment	82

TABLE IV (CONTINUED)

RECEIVING SYSTEMS MAINTENANCE
(STG 291)

TYPICAL TASKS		PMP
H340	Remove or install aircraft access panels	82
G301	Remove or install heat splices	81
H334	Perform periodic inspections of electronic warfare equipment	81
W1025	Apply power to aircraft	81
W1033	Operate aerospace ground equipment (AGE), such as power units, heaters, light carts, or lifts	81
G295	Program electronic warfare systems	80
H343	Remove or install equipment to facilitate other maintenance	79
G287	Perform phase inspections of electronic warfare equipment	75
G324	Transport electronic warfare systems	75
H330	Perform corrosion control on electronic warfare equipment on aircraft	71
H335	Perform phase inspections on aircraft	71
N681	Visually inspect AN/ALE-40 dispensing system LRUs	71
H342	Remove or install electronic warfare radomes	70
H347	Research technical order data for flightline checkout	70
K454	Isolate malfunctioning AN/ALE-40 dispensing system LRUs on aircraft	70
W1028	Inventory consolidated tool kits (CTK)	69
G293	Practice electrostatic discharge (ESD) procedures	68
E204	Initiate or complete aircraft maintenance forms, such as AFTO Forms 781 series	67
E220	Operate Core Automated Maintenance System (CAMS)	62
H352	Upload or download electronic warfare pods using MJ-1 or MJ-4 jammers or hydraulic stands	61
N655	Clean and lubricate AN/ALE-40 dispensing system LRUs	59
N667	Perform minimum performance checks on AN/ALE-40 dispensing system LRUs	58
N674	Remove or install AN/ALE-40 dispensing system LRU subassemblies or components	57
N660	Isolate malfunctioning AN/ALE-40 dispensing system LRU subassemblies or components	56
A7	Determine work priorities	55
H329	Perform cable frequency response and standing wave ratio (SWR) checks	52
J390	Perform preflight operational checks on AN/ALE-40 dispensing systems	51
K470	Isolate malfunctioning AN/ALR-69 receiving system LRUs on aircraft	46
B69	Supervise Electronic Warfare Systems Specialist (AFSC 45651)	45
L591	Visually inspect AN/ALR-69 receiving system LRUs	43

VARIATIONS

AN/ALE-40 Dispensing System/
AN/ALR-69 Receiving System
STG 674

OF PEOPLE IN VARIATION: 34
% OF GROUP: 8%
AVERAGE # OF TASKS: 78
MAJCOM: 88% TAC

WORK AREA: Electronic Warfare Flightline
Electronic Warfare Shop
AIRCRAFT SUPPORTED: A-10A
UNIQUE TEST/SHOP EQUIPMENT USED: N/A
UNIQUE SUPPORT EQUIPMENT USED: N/A

TYPICAL TASKS		PMP
H335	Perform phase inspections on aircraft	100
K454	Isolate malfunctioning AN/ALE-40 dispensing system LRUs on aircraft	97
K470	Isolate malfunctioning AN/ALR-69 receiving system LRUs on aircraft	97
N681	Visually inspect AN/ALE-40 dispensing system LRUs	94
H331	Perform end-of-runway inspections	85
L591	Visually inspect AN/ALR-69 receiving system LRUs	77
L574	Remove or install AN/ALR-69 receiving system LRU subassemblies or components	74
J390	Perform preflight operational checks on AN/ALE-40 dispensing systems	71
J398	Perform preflight operational checks on AN/ALR-69 receiving systems	71

TABLE IV (CONTINUED)

AN/ALR-46/46A Receiving System
STG 553

SUBVARIATIONS: Production Control (STG 749)

OF PEOPLE IN VARIATION: 35
% OF GROUP: 9%
AVERAGE # OF TASKS: 91
MAJCOM: 86% TAC

WORK AREA: Electronic Warfare Flightline
Electronic Warfare Shop
AIRCRAFT SUPPORTED: A-10A, F-4E, RF-4C, OV-10
UNIQUE TEST/SHOP EQUIPMENT USED: N/A
UNIQUE SUPPORT EQUIPMENT USED: AN/APM-381

TYPICAL TASKS		PMP
K469	Isolate malfunctioning AN/ALR-46/46A receiving system LRUs on aircraft	97
L522	Align AN/ALR-46/46A receiving system LRUs	94
L555	Perform minimum performance checks on AN/ALR-46/46A receiving system LRUs	86
L573	Remove or install AN/ALR-46/46A receiving system LRU subassemblies or components	83
L540	Isolate malfunctioning AN/ALR-46/46A receiving system LRU subassemblies or components	80
L590	Visually inspect AN/ALR-46/46A receiving system LRUs	80
J397	Perform preflight operational checks on AN/ALR-46/46A receiving systems	71
N667	Perform minimum performance checks on AN/ALE-40 dispensing system LRUs	69
N674	Remove or install AN/ALE-40 dispensing system LRU subassemblies or components	69
N660	Isolate malfunctioning AN/ALE-40 dispensing system LRU subassemblies or components	66

Production Control
(STG 749)

UNIQUE TASKS		PMP
E182	Complete AF Forms 127 (Traffic Transfer Receipt)	100
F227	Attach or annotate equipment status labels or tags, such as DD Forms 1574 (Serviceable Tag-Materiel)	100
F231	Complete AF Forms 451 (Request for Packaging Service)	100
F236	Coordinate with base supply on obtaining parts	100
F257	Maintain production status charts	100

AN/APR-47 Receiving System
STG 528

OF PEOPLE IN VARIATION: 33
% OF GROUP: 8%
AVERAGE # OF TASKS: 89
MAJCOM: 48% USAFE, 39% TAC

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: F-4E/G
UNIQUE TEST/SHOP EQUIPMENT USED:
Angle position indicator
Antenna position fixtures
Boresight equipment
Logic state analyzers
Network state analyzers
Variable delay lines
Vector voltmeters
UNIQUE SUPPORT EQUIPMENT USED:
AN/AWM-91
AN/ASM-660
HP-8510
Digital subsystem test sets
Intermediate frequency test set
Maintenance console
Radio frequency test sets
Recorder control unit

TABLE IV (CONTINUED)

AN/APR-47 Receiving System
STG 528

TYPICAL TASKS		PMP
L593	Visually inspect AN/APR-47 receiving system LRUs	91
L543	Isolate malfunctioning AN/APR-47 receiving system LRU subassemblies or components	85
L558	Perform minimum performance checks on AN/APR-47 receiving system LRUs	85
L576	Remove or install AN/APR-47 receiving system LRU subassemblies or components	85
L525	Align AN/ALR-47 receiving system LRUs	82
K476	Isolate malfunctioning AN/APR-47 receiving system LRUs on aircraft	67

AN/ALE-69 Receiving System/
AN/ALE-40 Dispensing System
STG 623

SUBVARIATIONS: Technicians (STG 980)
Supervisors (STG 794)
AN/ASD-5 Direction Finding Systems (STG 885)
AN/ALE-27 Dispensing System (STG 916)

OF PEOPLE IN VARIATION: 54
% OF GROUP: 13%
AVERAGE # OF TASKS: 107
MAJCOM: 37% MAC, 31% USAFE, 30% TAC

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: A-10A
UNIQUE TEST/SHOP EQUIPMENT USED: Decade boxes
Frequency response test sets
Interface test sets
Wattmeters
UNIQUE SUPPORT EQUIPMENT USED: AN/ALM-191, AN/ALM-197
AN/ALM-196

TYPICAL TASKS		PMP
L523	Align AN/ALR-69 receiving system LRUs	98
L556	Perform minimum performance checks on AN/ALR-69 receiving system LRUs	98
L541	Isolate malfunctioning AN/ALR-69 receiving system LRU subassemblies or components	98
L591	Visually inspect AN/ALR-69 receiving system LRUs	96
N674	Remove or install AN/ALE-40 dispensing system LRU subassemblies or components	96
N681	Visually inspect AN/ALE-40 dispensing system LRUs	96
N667	Perform minimum performance checks on AN/ALE-40 dispensing system LRUs	94
L574	Remove or install AN/ALR-69 receiving system LRU subassemblies or components	93
L660	Isolate malfunctioning AN/ALE-40 dispensing system LRU subassemblies or components	93
N649	Align AN/ALE-40 dispensing system LRUs dispensing system LRUs	87

TABLE IV (CONTINUED)

AN/ASD-5 Direction-Finding System
(STG 885)

UNIQUE TASKS		PMP
Q818	Perform minimum performance checks on AN/ASD-5 direction-finding system LRUs	86
Q824	Remove or install AN/ASD-5 direction-finding system LRU subassemblies or components	86
Q830	Visually inspect AN/ASD-5 direction-finding system LRUs	86
Q812	Isolate malfunctioning AN/ASD-5 direction-finding system LRU subassemblies or components	71

AN/ALE-27 Dispensing System
(STG 916)

UNIQUE TASKS		PMP
L533	Align QRC receiving system LRUs	100
N647	Align AN/ALE-27 dispensing system LRUs	100
L548	Isolate malfunctioning QRC receiving system LRU subassemblies or components	80
L566	Perform minimum performance checks on QRC receiving system LRUs	80
N653	Clean and lubricate AN/ALE-27 dispensing system LRUs	80
N658	Isolate malfunctioning AN/ALE-27 dispensing system LRU subassemblies or components	80
N665	Perform minimum performance checks on AN/ALE-27 dispensing system LRUs	80
N672	Remove or install AN/ALE-27 dispensing system LRU subassemblies or components	80
N679	Visually inspect AN/ALE-27 dispensing system LRUs	80

MC-130E Flightline Systems
STG 335

SUBVARIATIONS: Semiautomatic Systems (STG 446)
Dispensing Systems (STG 871)

OF PEOPLE IN VARIATION: 39
% OF GROUP: 10%
AVERAGE # OF TASKS: 116
MAJCOM: 100% MAC
WORK AREA: Electronic Warfare Flightline
AIRCRAFT SUPPORTED: AC-130H, MC-130E, HH-53H, Other
UNIQUE TEST/SHOP EQUIPMENT USED: N/A
UNIQUE SUPPORT EQUIPMENT USED: N/A

TYPICAL TASKS		PMP
K470	Isolate malfunctioning AN/ALR-69 receiving system LRUs on aircraft	100
H334	Perform periodic inspections of electronic warfare equipment	97
H352	Upload or download electronic warfare pods using MJ-1 or MJ-4 jammers or hydraulic stands	90
J390	Perform preflight operational checks on AN/ALE-40 dispensing systems	85
J398	Perform preflight operational checks on AN/ALR-69 receiving systems	74
J389	Perform preflight operational checks on AN/ALE-20 dispensing systems	69

Semiautomatic System
(STG 446)

UNIQUE TASKS		PMP
G318	Service electronic warfare systems with coolants	100
K455	Isolate malfunctioning AN/ALQ-117 semiautomatic system LRUs on aircraft	100
K462	Isolate malfunctioning AN/ALQ-155 semiautomatic system LRUs on aircraft	100
J411	Perform preflight or postflight operational checks on AN/ALQ-155 semiautomatic systems	83
J391	Perform preflight operational checks on AN/ALQ-117 semiautomatic systems	67

TABLE IV (CONTINUED)

Dispensing Systems
STG 871

UNIQUE TASKS		PMP
K470	Isolate malfunctioning AN/ALR-69 receiving system LRUs on aircraft	100
J418	Perform preflight or postflight operational checks on AN/ASD-5 direction finder systems	96
K450	Isolate malfunctioning AN/ALE-20 dispensing system LRUs on aircraft	96
K450	Isolate malfunctioning AN/ALE-40 dispensing system LRUs on aircraft	92
K514	Isolate malfunctioning system 65 semiautomatic system LRUs on aircraft	88
J440	Perform preflight or postflight operational checks on system 65	85
J441	Perform preflight or postflight operational checks on system 66	85

MC-130E Systems Shop Supervisors
STG 636

SUBVARIATIONS: Semiautomatic Systems (STG 933)
AN/ALE-27 Dispensing Systems (STG 777)

OF PEOPLE IN VARIATION: 21
% OF GROUP: 5%
AVERAGE # OF TASKS: 206
MAJCOM: 95% MAC

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: MC-130E
UNIQUE TEST/SHOP EQUIPMENT USED: Decade boxes
Force gauges
Variacs
Wattmeters

UNIQUE SUPPORT EQUIPMENT USED:

AN/AAM-42	AN/ALM-177
AN/AAM-44	AN/ALM-177A
AN/ALM-16	AN/ALM-191
AN/ALM-17B	AN/APM-381
High power test sets	

TYPICAL TASKS		PMP
K452	Isolate malfunctioning AN/ALE-27 dispensing system LRUs on aircraft	95
A12	Develop work methods or procedures	83
B69	Supervise Electronic Warfare Systems Technicians (AFSC 45651)	71
D123	Conduct OJT	71
B64	Orient newly assigned personnel	71
A7	Determine work priorities	62
B70	Supervise Electronic Warfare Systems Technicians (AFSC 45671)	52

Semiautomatic Systems
(STG 933)

UNIQUE TASKS		PMP
K515	Isolate malfunctioning system 66 semiautomatic system LRUs on aircraft	100
P803	Visually inspect system 66 semiautomatic system LRUs	89
K512	Isolate malfunctioning system 56 semiautomatic system LRUs on aircraft	67
P771	Perform minimum performance checks on system 65 semiautomatic system LRUs	67
P800	Visually inspect system 56 semiautomatic system LRUs	67

TABLE IV (CONTINUED)

AN/ALE-27 Dispensing Systems
(STG 777)

UNIQUE TASKS		PMP
N679	Visually inspect AN/ALE-27 dispensing system LRUs	92
N672	Remove or install AN/ALE-27 dispensing system LRU subassemblies or components	92
V1014	Perform cargo or classified courier duties	92
N665	Perform minimum performance checks on AN/ALE-27 dispensing system LRUs	83
V1011	Maintain security throughout flight phase of deployments	83
V1022	Store equipment at mission locations	83
V1008	Establish equipment security at mission locations	75
V1020	Secure mobility containers at mission locations	75
A9	Develop inputs to mobility plans	67

Basic Shop Technicians
STG 576

OF PEOPLE IN VARIATION: 72 — AVERAGE # OF TASKS: 163
% OF GROUP: 18% — MAJCOM: 51% TAC

WORK AREA: Electronic Warfare Flightline
Electronic Warfare Shop
AIRCRAFT SUPPORTED: A-10A, F-4E
UNIQUE TEST/SHOP EQUIPMENT USED: Frequency response test sets
UNIQUE SUPPORT EQUIPMENT USED: AN/ALM-126C, AN/ALM-196, AN/ALM-191, HP-8510, Computerized diagnostic test equipment

TYPICAL TASKS		PMP
H330	Perform corrosion control on electronic warfare equipment on aircraft	92
H337	Perform special inspections of electronic warfare equipment	90
G290	Perform transmission line checkouts	
H329	Perform cable frequency response and standing wave ratio (SWR) checks	76
F252	Maintain consolidated tool kits	71
F253	Maintain daily status records on support equipment	71

Cross Utilization Training
STG 547

SUBVARIATIONS: AN/ALR-46/46A Receiving System (STG 1131)
AN/APR-47 Receiving System (STG 984)
AN/ALQ-131 Pod System (STG 810)
AN/ALQ-125 TEREC Systems (STG 610)
Shop Supervisors (STG 795)

OF PEOPLE IN VARIATION: 99 — AVERAGE # OF TASKS: 95
% OF GROUP: 24% — MAJCOM: 48% USAFE, 35% TAC

WORK AREA: Electronic Warfare Flightline
AIRCRAFT SUPPORTED: A-10A, F-4E/G
UNIQUE TEST/SHOP EQUIPMENT USED: Boresight equipment
UNIQUE SUPPORT EQUIPMENT USED: AN/ASM-660, AN/AWM-91

TYPICAL TASKS		PMP
H352	Upload or download electronic warfare pods using MJ-1 or MJ-4 jammers or hydraulic stands	98
H340	Remove or install aircraft access panels	97
W1025	Apply power to aircraft	95
W1033	Operate aerospace ground equipment (AGE), such as power units, heaters, light carts, or lifts	95

TABLE IV (CONTINUED)

Cross Utilization Training
STG 547

TYPICAL TASKS		PMP
W1053	Walk wings or tails during aircraft towing operations	84
W1028	Inventory consolidated tool kits (CTK)	81
W1043	Remove or install aircraft pods	80
W1040	Position nonpowered or power AGE to aircraft	79
W1052	Transport test equipment or units to or from flightline	77
K454	Isolate malfunctioning AN/ALE-40 dispensing system LRUs on aircraft	77
W1041	Position or remove aircraft chocks	76
W1050	Tow aircraft	70
W1051	Tow nonpowered AGE	68

AN/ALR-46/46A Receiving System
(STG 1131)

TYPICAL TASKS		PMP
K469	Isolate malfunctioning AN/ALR-46/46A receiving system LRUs on aircraft	100
L590	Visually inspect AN/ALR-46/46A receiving system LRUs	100
J397	Perform preflight operational checks on AN/ALR-46/46A receiving systems	100
W1042	Remove or install aircraft external fuel tanks	86
W1031	Load drogue chutes	71

AN/APR-47 Receiving System
(STG 984)

UNIQUE TASKS		PMP
K476	Isolate malfunctioning AN/APR-47 receiving system LRUs on aircraft	100
L593	Visually inspect AN/APR-47 receiving system LRUs	88
J401	Perform pre light operational checks on AN/APR-47 receiving systems	72

AN/ALQ-131 Pod System
(STG 810)

UNIQUE TASKS		PMP
K459	Isolate malfunctioning AN/ALQ-131 pod system LRUs on aircraft	100
J390	Perform preflight operational checks on AN/ALE-40 dispensing systems	86
J394	Perform preflight operational checks on AN/ALQ-131 pod systems	86

AN/ALQ-125 TEREC System
(STG 610)

UNIQUE TASKS		PMP
J408	Perform preflight or postflight operational checks on AN/ALQ-125 tactical electronic reconnaissance systems	94
J394	Perform preflight operational checks on AN/ALQ-131 pod systems	89
K469	Isolate malfunctioning AN/ALR-46/46A receiving system LRUs on aircraft	89
K459	Isolate malfunctioning AN/ALQ-131 pod system LRUs on aircraft	89
K458	Isolate malfunctioning AN/ALQ-125 tactical electronic reconnaissance (TEREC) system LRUs on aircraft	83
T940	Visually inspect AN/ALQ-125 TEREC system LRUs	83

TABLE IV (CONTINUED)

Shop Supervisors
(STG 795)

UNIQUE TASKS		PMP
C114	Write EPRs	100
B69	Supervise Electronic Warfare Systems Specialist (AFSC 45651)	90
D126	Counsel trainees on training progress	90
B41	Counsel subordinates on job progression or career development	81
A17	Establish performance standards for subordinates	77
B47	Direct flightline maintenance	77

Support Equipment Supervisors
STG 723

OF PEOPLE IN VARIATION: 10
% OF GROUP: 2%
AVERAGE # OF TASKS: 171
MAJCOM: 50% USAFE, 30% TAC

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: F-4E/G, RF-4C
UNIQUE TEST/SHOP EQUIPMENT USED:
Angle position indicator
Antenna position fixtures
Audio oscillators
Boresight equipment
Decade boxes
Degaussers
Frequency response test sets
Interface test sets
Logic state analyzers
Network state analyzers
Transistor detectors
Transistor testors
Variable delay lines
Variacs
Vector voltmeters

UNIQUE SUPPORT EQUIPMENT USED:

AN/ALM-151	AN/ASM-660
AN/APM-381	AN/AWM-91
HP-8510	RD-474/G

Digital subsystem test set
Ground playback station recorders
Intermediate frequency test set
Maintenance console
Radio frequency test set
Recorder control unit
Signal data distribution unit
Universal bench test kits

TYPICAL TASKS		PMP
U989	Program programmable read-only memory (PROM) programs	100
U972	Perform diagnostic self-tests on computers	90
U995	Remove or install logic circuit components	90
U996	Remove or install memory device components	90
A27	Plan work assignments	80
B67	Supervise Apprentice Electronic Warfare Systems Specialists (AFSC 45631B)	80
L543	Isolate malfunctioning AN/APR-47 receiving system LRU subassemblies or components	80
L576	Remove or install AN/APR-47 receiving system LRU subassemblies or components	80
U966	Isolate malfunctions within logic circuits	80
U991	Remove or install analog-to-digital converter components	80
U993	Remove or install digital display system components	80
U994	Remove or install digital-to-analog converter components	80

TABLE V

AN/ALE-40 DISPENSING SYSTEMS MAINTENANCE
(STG 92)

VARIATIONS: AN/ALR-46/46A/-47 Receiving Systems (STG 197)
AN/ALR-69 Receiving Systems (STG 412)

OF PEOPLE IN GROUP: 20
% OF TOTAL SAMPLE: 1%

% ASSIGNED CONUS: 55%
MAJCOM: 60% TAC, 20% PACAF

AVERAGE TAFMS: 69 months
AVERAGE TICF: 59 months
AVERAGE PAYGRADE: E-4

AVERAGE # OF TASKS: 56
AVERAGE # PERSONS SUPERVISE: 1

WORK AREA: Electronic Warfare Shop
ORGANIZATIONAL LEVEL: Squadron, Wing

AIRCRAFT SUPPORTED: 35% A-10A, 35% F-4E/G, 25% F-16A, 20% F-16B
UNIQUE TEST/SHOP EQUIPMENT USED: Boresight equipment
Standing wave ratio meters
Time domain reflectometers
Variable delay lines
Vector voltmeters

UNIQUE SUPPORT EQUIPMENT USED:

AN/ALM-91	AN/ALM-191
AN/ALM-177	AN/APM-379
AN/ALM-177A	AN/APM-380
AN/ALM-177B	AN/APM-427
AN/ALM-184	AN/APR-38

HP-8328A transmission line set
Digital subsystem test sets
Intermediate frequency test sets
Maintenance console
Program read-only memory burners
Processor test station
Radio frequency test sets
Standard memory load verifier

TOP DUTIES

24%	G	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE
13%	N	MAINTAINING DISPENSING SYSTEMS
11%	L	MAINTAINING RECEIVING SYSTEMS
10%	I	PERFORMING ELECTRONIC WARFARE GENERAL SHOP MAINTENANCE
9%	F	PERFORMING SUPPLY AND EQUIPMENT FUNCTIONS
7%	H	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR AIRBORNE MAINTENANCE

TYPICAL TASKS		PMP
N649	Align AN/ALE-40 dispensing system LRUs	90
N667	Perform minimum performance checks on AN/ALE-40 dispensing system LRUs	85
N674	Remove or install AN/ALE-40 dispensing system LRU subassemblies or components	85
N681	Visually inspect AN/ALE-40 dispensing system LRUs	85
N655	Clean and lubricate AN/ALE-40 dispensing system LRUs	75
G316	Safety wire units	
N660	Isolate malfunctioning AN/ALE-40 dispensing system LRU subassemblies or components	70
G288	Perform soldering tasks	65
E220	Operate Core Automated Maintenance System (CAMS)	55
G283	Interconnect test equipment with LRUs	55
G306	Remove or install minor hardware, such as latches, screws, or hinges	55
G303	Remove or install knobs or controls	50
G324	Transport electronic warfare systems	50
I371	Isolate test bench mockup malfunctions	50
I379	Remove or install printed circuit board components	50
I384	Repair test bench mockups	50
W1025	Apply power to aircraft	50

TABLE V (CONTINUED)

AN/ALE-40 DISPENSING SYSTEMS MAINTENANCE
(STG 92)

TYPICAL TASKS		PMP
W1033	Operate aerospace ground equipment (AGE), such as power units, heaters, light carts, or lifts	50
F252	Maintain consolidated tool kits	45
G289	Perform support equipment inspections	45
G323	Transport classified equipment	45
E178	Annotate or complete AFTO Forms 349 (Maintenance Data Collection Record)	40
H352	Upload or download electronic warfare pods using MJ-1 or MJ-4 jammers or hydraulic stands	40
I369	Inspect test bench mockups	40
F227	Attach or annotate equipment status labels or tags, such as DD Forms 1574 (Serviceable Tag-Materiel)	35
F228	Certify status of repairable, serviceable, or condemned parts	35
F248	Inventory equipment, tools, or supplies, other than aircraft equipment or consolidated tool kits (CTK)	35
K454	Isolate malfunctioning AN/ALE-40 dispensing system LRUs on aircraft	35
L525	Align AN/APR-47 receiving system LRUs	35
L543	Isolate malfunctioning AN/APR-47 receiving system LRU subassemblies or components	35
L593	Visually inspect AN/APR-47 receiving system LRUs	35
J390	Perform preflight operational checks on AN/ALE-40 dispensing systems	30
L523	Align AN/ALR-69 receiving system LRUs	30
L541	Isolate malfunctioning AN/ALR-69 receiving system LRU subassemblies or components	30
L556	Perform minimum performance checks on AN/ALR-69 receiving system LRUs	30
L574	Remove or install AN/ALR-69 receiving system LRU subassemblies or components	30
L576	Remove or install AN/APR-47 receiving system LRU subassemblies or components	30
L591	Visually inspect AN/ALR-69 receiving system LRUs	30

TABLE V (CONTINUED)

VARIATIONS

AN/ALR-46/46A/-47 Receiving Systems
STG 197

OF PEOPLE IN VARIATION: 5
% OF GROUP: 25%
AVERAGE # OF TASKS: 61
MAJCOM: 60% PACAF, 40% TAC

WORK AREA: Electronic Warfare Flightline
AIRCRAFT SUPPORTED: F-4E/G
UNIQUE TEST/SHOP EQUIPMENT USED: Boresight equipment
Variable delay lines
Vector voltmeters
UNIQUE SUPPORT EQUIPMENT USED: AN/ALM-91, AN/ASM-660, AN/ALM-177, AN/AWM-91, AN/ALM-177A, HP-8510, AN/APR-38, Digital subsystem test sets, Ground playback station recorders, Intermediate frequency test sets, Maintenance console, Radio frequency test sets, Standard memory loader verifier

TYPICAL TASKS		PMP
L522	Align AN/ALR-46/46A receiving system LRUs	100
L525	Align AN/ALR-47 receiving system LRUs	100
L540	Isolate malfunctioning AN/ALR-46/46A receiving system LRU subassemblies or components	100
L543	Isolate malfunctioning AN/APR-47 receiving system LRU subassemblies or components	100
L573	Remove or install AN/ALR-46/46A receiving system LRU subassemblies or components	100
L576	Remove or install AN/APR-47 receiving system LRU subassemblies or components	100
L590	Visually inspect AN/ALR-46/46A receiving system LRUs	100
L593	Visually inspect AN/APR-47 receiving system LRUs	100
B42	Counsel subordinates on personal or military matters	80
E220	Operate Core Automated Maintenance System (CAMS)	80
J390	Perform preflight operational checks on AN/ALE-40 dispensing systems	80
J395	Perform preflight operational checks on AN/ALQ-184 pod systems	80

AN/ALR-69 Receiving Systems
STG 412

OF PEOPLE IN VARIATION: 5
% OF GROUP: 25%
AVERAGE # OF TASKS: 51
MAJCOM: 80% TAC, 20% PACAF,

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: A-10A
UNIQUE TEST/SHOP EQUIPMENT USED: Breakout boxes
UNIQUE SUPPORT EQUIPMENT USED: AN/ALM-191, AN/ALM-196

TYPICAL TASKS		PMP
G288	Perform soldering tasks	100
N667	Perform minimum performance checks on AN/ALE-40 dispensing system LRUs	100
N674	Remove or install AN/ALE-40 dispensing system LRU subassemblies or components	100
N681	Visually inspect AN/ALE-40 dispensing system LRUs	100
E175	Annotate AFTO Forms 244 and 245 (Industrial/Support Equipment Record)	80
G277	Change fuses or circuit breakers	80
G289	Perform support equipment inspections	80
I371	Isolate test bench mockup malfunctions	80
I374	Perform corrosion control treatments on electronic warfare equipment in the shop	80
L523	Align AN/ALR-69 receiving system LRUs	60
L541	Isolate malfunctioning AN/ALR-69 receiving system LRU subassemblies or components	60
L556	Perform minimum performance checks on AN/ALR-69 receiving system LRUs	60
L574	Remove or install AN/ALR-69 receiving system LRU subassemblies or components	60
L591	Visually inspect AN/ALR-69 receiving system LRUs	60

TABLE VI

COMPASS CALL PME MAINTENANCE (IN-FLIGHT)
(STG 52)

VARIATIONS: Training (STG 230)
Technicians (STG 272)

OF PEOPLE IN GROUP: 25
% OF TOTAL SAMPLE: 1%

% ASSIGNED CONUS: 80%
MAJCOM: 60% TAC, 20% SAC

AVERAGE TAFMS: 115 month
AVERAGE TICF: 103 month
AVERAGE PAYGRADE: E-5

AVERAGE # OF TASKS: 45
PERSONS SUPERVISE: 1

WORK AREA: In-Flight Maintenance Section
Operations
ORGANIZATIONAL LEVEL: Squadron

AIRCRAFT SUPPORTED: 44% EC 130H, 24% RC-135V/W
UNIQUE TEST/SHOP EQUIPMENT USED: N/A
UNIQUE SUPPORT EQUIPMENT USED: Antenna systems
Computerized diagnostic test equipment
Data analysis consoles
Maintenance console

TOP DUTIES

24%	H	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR AIRBORNE MAINTENANCE
11%	D	TRAINING
9%	K	ISOLATING MALFUNCTIONS WITHIN ELECTRONIC WARFARE SYSTEMS ON AIRCRAFT
7%	G	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE
7%	J	PERFORMING PREFLIGHT OR POSTFLIGHT OPERATIONAL CHECKS ON ELECTRONIC WARFARE SYSTEMS
6%	A	ORGANIZING AND PLANNING
5%	L	MAINTAINING RECEIVING SYSTEMS
5%	M	MAINTAINING TRANSMITTING SYSTEMS
5%	P	MAINTAINING SEMIAUTOMATIC SYSTEMS

TYPICAL TASKS		PMP
H325	Analyze in-flight malfunctions	100
H332	Perform in-flight checkouts of electronic equipment	100
H333	Perform in-flight maintenance of electronic equipment	96
H326	Inventory aircraft equipment	72
K484	Isolate malfunctioning Compass Call PME on aircraft	64
J402	Perform preflight operational checks on Compass Call prime mission equipment (PME)	60
M640	Visually inspect Compass Call PME transmitting system LRUs	48
M617	Isolate malfunctioning Compass Call PME transmitting system LRU subassemblies or components	44
P764	Perform minimum performance checks on Compass Call PME, high band-1, or high band-2 semiautomatic system LRUs	44
D126	Counsel trainees on training progress	40
L594	Visually inspect Compass Call PME receiving system LRUs	40
P747	Isolate malfunctioning Compass Call PME, high band-1, or -2 semiautomatic system LRUs subassemblies or components	40
H353	Upload or download magnetic tapes onto aircraft	36
M625	Perform minimum performance checks on Compass Call PME transmitting system LRUs	36
D142	Evaluate proficiency training	24

VARIATIONS

Training
STG 230

OF PEOPLE IN VARIATION: 6
% OF GROUP: 24%
AVERAGE # OF TASKS: 83
MAJCOM: 50% TAC

WORK AREA: Training
Other
AIRCRAFT SUPPORTED: EC-130H, RC-135V/W
UNIQUE TEST/SHOP EQUIPMENT USED: Blower assemblies
Calculators
Pulse generators
Signal generators
Signal sources
UNIQUE SUPPORT EQUIPMENT USED: Computer diagnostic test equipment
Data analysis console
Digital subsystem test sets

TYPICAL TASKS		PMP
D118	Administer tests	100
D126	Counsel trainees on training progress	100
D139	Evaluate effectiveness of training programs	100
D164	Score tests	100
D166	Write test questions	100
C88	Evaluate maintenance work of in-flight crews	83
C94	Evaluate personnel for compliance with performance standards	83
D117	Administer student critiques	83
D142	Evaluate proficiency training	83

Technicians
STG 272

OF PEOPLE IN VARIATION: 9
% OF GROUP: 36%
AVERAGE # OF TASKS: 40
MAJCOM: 78% TAC, 22% USAFE

WORK AREA: Airborne Maintenance Shop
Operations
AIRCRAFT SUPPORTED: EC-130H
UNIQUE TEST/SHOP EQUIPMENT USED: Directional couplers
Frequency counters
Memory devices
Power supplies
UNIQUE SUPPORT EQUIPMENT USED: Other

TYPICAL TASKS		PMP
K484	Isolate malfunctioning Compass Call PME on aircraft	100
M640	Visually inspect Compass Call PME transmitting system LRUs	100
M617	Isolate malfunctioning Compass Call PME transmitting system LRU subassemblies or components	89
P764	Perform minimum performance checks on Compass Call PME, high band-1, or high band-2 semiautomatic system LRUs	89
G305	Remove or install magnetic tapes	67
L544	Isolate malfunctioning Compass Call PME receiving system LRU subassemblies or components	67
W1037	Perform preflight inspections	56

TABLE VII

COMPASS CALL PME MAINTENANCE (SHOP)
(STG 480)

VARIATIONS: N/A

OF PEOPLE IN GROUP: 38
% OF TOTAL SAMPLE: 2%

% ASSIGNED CONUS: 71%
MAJCOM: 76% TAC, 24% USAFE

AVERAGE TAFMS: 87 months
AVERAGE TICF: 79 months
AVERAGE PAYGRADE: E-4/5

AVERAGE # OF TASKS: 105
PERSONS SUPERVISE: 1

WORK AREA: Electronic Warfare Shop
Electronic Warfare Flightline
ORGANIZATIONAL LEVEL: Squadron

AIRCRAFT SUPPORTED: 89% EC-130H
UNIQUE TEST/SHOP EQUIPMENT USED: Audio oscillators
Interface test sets
Network state analyzers
Standing wave ratio meters
Time domain reflectometers
Variacs
Wattmeters
Wavemeters
X-Y Plotters
UNIQUE SUPPORT EQUIPMENT USED: Antenna systems
Computerized diagnostic test equipment

TOP DUTIES

24%	G	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE
10%	H	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR AIRBORNE MAINTENANCE
8%	I	PERFORMING ELECTRONIC WARFARE GENERAL SHOP MAINTENANCE
7%	E	PERFORMING ADMINISTRATIVE FUNCTIONS
7%	F	PERFORMING SUPPLY AND EQUIPMENT FUNCTIONS
6%	M	MAINTAINING TRANSMITTING SYSTEMS
6%	L	MAINTAINING RECEIVING SYSTEMS
6%	P	MAINTAINING SEMIAUTOMATIC SYSTEMS

TYPICAL TASKS		PMP
K484	Isolate malfunctioning Compass Call PME on aircraft	100
L577	Remove or install Compass Call PME receiving system LRU subassemblies or components	97
M609	Align Compass Call PME transmitting system LRUs	97
M632	Remove or install Compass Call PME transmitting system LRU subassemblies or components	97
P781	Remove or install Compass Call PME, high band-1, or -2 semiautomatic system LRU subassemblies or components	97
P797	Visually inspect Compass Call PME, high band-1, or high band -2 semiautomatic system LRUs	97
G304	Remove or install light bulbs	95
L594	Visually inspect Compass Call PME receiving system LRUs	95
M640	Visually inspect Compass Call PME transmitting system LRUs	95
P747	Isolate malfunctioning Compass Call PME, high band-1, or -2 semiautomatic system LRUs subassemblies or components	95
G297	Remove or install coaxial cable connectors	92
M617	Isolate malfunctioning Compass Call PME transmitting system LRU subassemblies or components	92
G281	Inspect coaxial cables	89
L544	Isolate malfunctioning Compass Call PME receiving system LRU subassemblies or components	89
P764	Perform minimum performance checks on Compass Call PME, high band-1, or high band-2 semiautomatic system LRUs	89

TABLE VII (CONTINUED)

COMPASS CALL PME MAINTENANCE (SHOP)
(STG 480)

TYPICAL TASKS		PMP
W1025	Apply power to aircraft	89
G277	Change fuses or circuit breakers	87
G316	Safety wire units	87
L559	Perform minimum performance checks on Compass Call PME receiving system LRUs	87
P731	Align Compass Call PME, high band-1, or high band-2 semiautomatic system LRUs	87
W1033	Operate aerospace ground equipment (AGE), such as power units, heaters, light carts, or lifts	87
G317	Secure classified property	86
G290	Perform transmission line checkouts	84
G308	Remove or install multiconductor cable connectors	84
H337	Perform special inspections of electronic warfare equipment	84
T916	Align SSRS-625B airborne receiving system (Comfy Levi) LRUs	84
H334	Perform periodic inspections of electronic warfare equipment	79
L526	Align Compass Call PME receiving system LRUs	79
J402	Perform preflight operational checks on Compass Call prime mission equipment (PME)	74
E187	Complete Field Maintenance Reports (FMR)	68
F246	Initiate AF Forms 1297 (Temporary Issue Receipt)	41
H329	Perform cable frequency response and standing wave ratio (SWR) checks	36
E223	Report technical order deficiencies	35
E220	Operate Core Automated Maintenance System (CAMS)	34

TABLE VIII

AN/ALQ-125 TEREC SYSTEM MAINTENANCE
(STG 347)

VARIATIONS: N/A

OF PEOPLE IN GROUP: 7
% OF TOTAL SAMPLE: 0.3%

% ASSIGNED CONUS: 29%
MAJCOM: 57% USAFE, 29% SAC

AVERAGE TAFMS: 48 months
AVERAGE TICF: 48 months
AVERAGE PAYGRADE: E-4

AVERAGE # OF TASKS: 95
AVERAGE # PERSON SUPERVISE: 0

WORK AREA: Electronic Warfare Shop
ORGANIZATIONAL LEVEL: Squadron

AIRCRAFT SUPPORTED: 43% RF-4C
UNIQUE TEST/SHOP EQUIPMENT USED: Blower assemblies
Degaussers
Logic state analyzer
Vector voltmeters
Wattmeters

UNIQUE SUPPORT EQUIPMENT USED:

AN/ALM-147	AN/ALM-151
AN/APM-148	AN/ALM-188
AN/APM-149	AN/APM-379
AN/APM-150	AN/APM-427

AN/PSM-27
Antenna systems
Electronic signal measurement console
Intermediate frequency test sets
Maintenance console
Program read only memory burners
Processor test station
Radio frequency test set
Standard memory load verifier

TOP DUTIES

31%	G	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE
13%	F	PERFORMING SUPPLY AND EQUIPMENT FUNCTIONS
13%	I	PERFORMING ELECTRONIC WARFARE GENERAL SHOP MAINTENANCE
8%	H	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR AIRBORNE MAINTENANCE
5%	T	MAINTAINING ELECTRONIC RECONNAISSANCE SYSTEMS

TYPICAL TASKS		PMP
G283	Interconnect test equipment with LRUs	100
G288	Perform soldering tasks	100
G295	Program electronic warfare systems	100
G298	Remove or install coaxial cables	100
G317	Secure classified property	100
G324	Transport electronic warfare systems	100
I369	Inspect test bench mockups	100
F229	Complete AF Forms 2005 (Issue/Turn-In Request)	86
F227	Attach or annotate equipment status labels or tags, such as DD Forms 1574 (Serviceable Tag-Materiel)	86
F248	Inventory equipment, tools, or supplies, other than aircraft equipment or consolidated tool kits (CTK)	86
G278	Clean tape heads	86
G281	Inspect coaxial cables	86
G285	Lubricate equipment components	86
G287	Perform phase inspections of electronic warfare equipment	86
G291	Perform visual inspection of antennas	86

TABLE VIII (CONTINUED)

AN/ALQ-125 TEREC SYSTEM MAINTENANCE
(STG 347)

TYPICAL TASKS		PMP
G293	Practice electrostatic discharge (ESD) procedures	86
G314	Research technical order wiring or circuit diagrams	86
G315	Research technical orders to identify components or items of equipment	86
G316	Safety wire units	86
G323	Transport classified equipment	86
I359	Crate or uncrate equipment	86
I382	Remove or install shop replaceable units	86
L573	Remove or install AN/ALR-46/46A receiving system LRU subassemblies or components	86
L590	Visually inspect AN/ALR-46/46A receiving system LRUs	86
W1033	Operate aerospace ground equipment (AGE), such as power units, heaters, light carts, or lifts	86
F226	Annotate AF Forms 2413 (Supply Control Log)	71
F228	Certify status of repairable, serviceable, or condemned parts	71
F236	Coordinate with base supply on obtaining parts	71
G279	Degauss tape heads	71
G280	Degauss tapes	71
G286	Perform antenna checkouts	71
H334	Perform periodic inspections of electronic warfare equipment	71
I379	Remove or install printed circuit board components	71
W1025	Apply power to aircraft	71
H340	Remove or install aircraft access panels	57
J408	Perform preflight or postflight operational checks on AN/ALQ-125 TEREC systems	57
K458	Isolate malfunctioning AN/ALQ-125 tactical electronic reconnaissance (TEREC) system LRUs on aircraft	57
T910	Align AN/ALQ-125 TEREC system LRUs	57
T917	Isolate malfunctioning AN/ALQ-125 TEREC system LRU subassemblies or components	57
T924	Perform minimum performance checks on AN/ALQ-125 TEREC system LRUs	57
T933	Remove or install AN/ALQ-125 TEREC system LRU subassemblies or components	57
T940	Visually inspect AN/ALQ-125 TEREC system LRUs	57

TABLE IX

CROSS UTILIZATION TRAINING (CUT)
(STG 108)

VARIATIONS: General Shop Systems (STG 277)
A-10A Systems (STG 248)
F-4G Systems (STG 433)
RF-4C Systems (STG 331)

OF PEOPLE IN GROUP: 28
% OF TOTAL SAMPLE: 1%

% ASSIGNED CONUS: 71%
MAJCOM: 57% TAC, 25% USAFE

AVERAGE TAFMS: 75 months
AVERAGE TICF: 65 months
AVERAGE PAYGRADE: E-4

AVERAGE # OF TASKS: 43
PERSONS SUPERVISE: 0

WORK AREA: Electronic Warfare Flightline
ORGANIZATIONAL LEVEL: Squadron

AIRCRAFT SUPPORTED: 25% A-10A, 25% F-4G
UNIQUE TEST/SHOP EQUIPMENT USED: Time domain reflectometers
UNIQUE SUPPORT EQUIPMENT USED: AN/ALM-177B, AN/APM-427

TOP DUTIES

31%	G	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE
20%	H	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR AIRBORNE MAINTENANCE
18%	W	PERFORMING CROSS UTILIZATION TRAINING (CUT) FUNCTIONS
6%	E	PERFORMING ADMINISTRATIVE FUNCTIONS
6%	K	ISOLATING MALFUNCTIONS WITHIN ELECTRONIC WARFARE SYSTEMS ON AIRCRAFT

TYPICAL TASKS		PMP
H340	Remove or install aircraft access panels	89
W1033	Operate aerospace ground equipment (AGE), such as power units, heaters, light carts, or lifts	86
W1025	Apply power to aircraft	82
G291	Perform visual inspection of antennas	79
G316	Safety wire units	79
G281	Inspect coaxial cables	71
H352	Upload or download electronic warfare pods using MJ-1 or MJ-4 jammers or hydraulic stands	61
G314	Research technical order wiring or circuit diagrams	57
G317	Secure classified property	57
H341	Remove or install antennas	57
F229	Complete AF Forms 2005 (Issue/Turn-In Request)	54
G277	Change fuses or circuit breakers	54
G295	Program electronic warfare systems	54
G297	Remove or install coaxial cable connectors	54
H343	Remove or install equipment to facilitate other maintenance	54
E220	Operate Core Automated Maintenance System (CAMS)	50
H342	Remove or install electronic warfare radomes	50
K454	Isolate malfunctioning AN/ALE-40 dispensing system LRUs on aircraft	50
W1040	Position nonpowered or powered AGE to aircraft	50
W1053	Walk wings or tails during aircraft towing operations	50
E204	Initiate or complete aircraft maintenance forms, such as AFTO Forms 781 series	46
G323	Transport classified equipment	46
W1028	Inventory consolidated tool kits (CTK)	46
W1052	Transport test equipment or units to or from flightline	46
G283	Interconnect test equipment with LRUs	43
G286	Perform antenna checkouts	43
G306	Remove or install minor hardware, such as latches, screws, or hinges	43
G315	Research technical orders to identify components or items of equipment	43
G307	Remove or install mounting brackets or fixtures	39
W1041	Position or remove aircraft chocks	39
H334	Perform periodic inspections of electronic warfare equipment	36
H351	Upload or download electronic warfare missile well adapters	36

TABLE IX (CONTINUED)

CROSS UTILIZATION TRAINING (CUT)
(STG 108)

TYPICAL TASKS		PMP
G324	Transport electronic warfare systems	32
K459	Isolate malfunctioning AN/ALQ-131 pod system LRUs on aircraft	32
W1030	Launch or recover aircraft	32
W1043	Remove or install aircraft pods	29
G287	Perform phase inspections of electronic warfare equipment	25
H335	Perform phase inspections on aircraft	25
H336	Perform safety checks on aircraft devices, such as ejector seats or jettison switches	21

VARIATIONS

General Shop Systems
STG 277

OF PEOPLE IN VARIATION: 5
% OF GROUP: 18%
AVERAGE # OF TASKS: 34
MAJCOM: 80% TAC

WORK AREA: Electronic Warfare Flightline
Electronic Warfare Shop
AIRCRAFT SUPPORTED: A-10A, OV-10
UNIQUE TEST/SHOP EQUIPMENT USED:
Attenuators
Breakout boxes
Frequency counters
Modulators
Oscilloscopes
Power meters
Power supplies
Pulse generators
Signal generators
UNIQUE SUPPORT EQUIPMENT USED: AN/APM-379, AN/PSM-27

TYPICAL TASKS		PMP
G283	Interconnect test equipment with LRUs	80
G288	Perform soldering tasks	80
G323	Transport classified equipment	80
G324	Transport electronic warfare systems	80
W1028	Inventory consolidated tool kits (CTK)	60

A-10A Systems
STG 248

OF PEOPLE IN VARIATION: 5
% OF GROUP: 18%
AVERAGE # OF TASKS: 38
MAJCOM: 40% TAC, 40% SAC

WORK AREA: Other
AIRCRAFT SUPPORTED: A-10A
UNIQUE TEST/SHOP EQUIPMENT USED:
Crystal diode detectors
Frequency counters
Oscilloscopes
Positive intrinsic negative modulators
Power meters
Power supplies
Pulse generators
Punch tape reader
Signal generators
Universal counters
UNIQUE SUPPORT EQUIPMENT USED: AN/ALM-177, AN/ALM-184, AN/APM-379, AN/APM-380

TABLE IX (CONTINUED)

A-10A Systems
STG 248

TYPICAL TASKS		PMP
H335	Perform phase inspections on aircraft	100
E204	Initiate or complete aircraft maintenance forms, such as AFTO Forms 781 series	80
G287	Perform phase inspections of electronic warfare equipment	80
H341	Remove or install antennas	80
H342	Remove or install electronic warfare radomes	80
W1033	Operate aerospace ground equipment (AGE), such as power units, heaters, light carts, or lifts	80
N660	Isolate malfunctioning AN/ALE-40 dispensing system LRU subassemblies or components	60
N681	Visually inspect AN/ALE-40 dispensing system LRUs	60
N655	Clean and lubricate AN/ALE-40 dispensing system LRUs	40
W1034	Operate or service maintenance dispatch vehicles	40
W1052	Transport test equipment or units to or from flightline	40

F-4G System
STG 433

OF PEOPLE IN VARIATION: 8
% OF GROUP: 29%
AVERAGE # OF TASKS: 45
MAJCOM: 63% USAFE, 38% TAC

WORK AREA: Electronic Warfare Flightline
AIRCRAFT SUPPORTED: A-10A, F-4G
UNIQUE TEST/SHOP EQUIPMENT USED: Ammeters
Boresight equipment
Breakout boxes
Interface test sets
Memory devices
Time domain reflectometers
UNIQUE SUPPORT EQUIPMENT USED: AN/AWM-91
AN/APR-38 tape reader
Standard memory loader verifier

TYPICAL TASKS		PMP
H352	Upload or download electronic warfare pods using MJ-1 or MJ-4 jammers or hydraulic stands	100
W1025	Apply power to aircraft	100
G277	Change fuses or circuit breakers	88
G295	Program electronic warfare systems	88
G297	Remove or install coaxial cable connectors	88
K454	Isolate malfunctioning AN/ALE-40 dispensing system LRUs on aircraft	88
G301	Remove or install heat splices	75
G304	Remove or install light bulbs	75
G317	Secure classified property	75
H351	Upload or download electronic warfare missile well adapters	75
W1041	Position or remove aircraft chocks	75
K476	Isolate malfunctioning AN/APR-47 receiving system LRUs on aircraft	63
W1040	Position nonpowered or powered AGE to aircraft	63
L576	Remove or install AN/APR-47 receiving system LRU subassemblies or components	38

TABLE IX (CONTINUED)

RF-4C Systems
STG 331

OF PEOPLE IN VARIATION: 6
% OF GROUP: 21%

AVERAGE # OF TASKS: 53
MAJCOM: 100% TAC (Bergstrom AFB)

WORK AREA: Electronic Warfare Flightline
AIRCRAFT SUPPORTED: RF-4C
UNIQUE TEST/SHOP EQUIPMENT USED: N/A
UNIQUE SUPPORT EQUIPMENT USED: AN/APM 327

TYPICAL TASKS		PMP
J397	Perform preflight operational checks on AN/ALR-46/46A receiving systems	100
K469	Isolate malfunctioning AN/ALR-46/46A receiving system LRUs on aircraft	100
W1040	Position nonpowered or powered AGE to aircraft	100
W1053	Walk wings or tails during aircraft towing operations	100
H343	Remove or install equipment to facilitate other maintenance	83
J394	Perform preflight operational checks on AN/ALQ-131 pod systems	83
K459	Isolate malfunctioning AN/ALQ-131 pod system LRUs on aircraft	83
L590	Visually inspect AN/ALR-46/46A receiving system LRUs	83
W1041	Position or remove aircraft chocks	83
E220	Operate Core Automated Maintenance System (CAMS)	67
H354	Upload or download photographic film onto aircraft	67
H355	Upload or download pylons	67
W1030	Launch or recover aircraft	67
W1037	Perform preflight inspections	67
W1043	Remove or install aircraft pods	67
W1052	Transport test equipment or units to or from flightline	67

TABLE X

TAF JOB CONTROL
(STG 621)

VARIATIONS: N/A

OF PEOPLE IN GROUP: 6
% OF TOTAL SAMPLE: 0.3%

% ASSIGNED CONUS: 50%
MAJCOM: 33% TAC

AVERAGE TAFMS: 154 months
AVERAGE TICF: 98 months
AVERAGE PAYGRADE: E-5

AVERAGE # OF TASKS: 11
AVERAGE # PERSONS SUPERVISE: 0

WORK AREA: Job Control
ORGANIZATIONAL LEVEL: Squadron, Wing

AIRCRAFT SUPPORTED: 33% Other
UNIQUE TEST/SHOP EQUIPMENT USED: None
UNIQUE SUPPORT EQUIPMENT USED: Other

TOP DUTIES

49% A ORGANIZING AND PLANNING
25% E PERFORMING ADMINISTRATIVE FUNCTIONS
18% B DIRECTING AND IMPLEMENTING

TYPICAL TASKS		PMP
A3	Coordinate flightline or shop maintenance activities with maintenance offices	100
A4	Coordinate work activities with other sections or agencies	100
E221	Operate general office equipment, such as typewriters or small computers	100
A21	Participate in meetings, such as staff meetings, briefings, conferences, or workshops	83
B38	Compile information for reports or staff studies	67
E220	Operate Core Automated Maintenance System (CAMS)	67

TABLE XI

B-52G/H SEMIAUTOMATIC SYSTEMS MAINTENANCE
(STG 264)

VARIATIONS: AN/ALQ-153 Semiautomatic System (STG 685)
AN/ALQ-155 Semiautomatic System (STG 439)
AN/ALQ-172 Semiautomatic System (STG 578)
AN/ALE-20 & AN/ALE-24 Dispensing Systems (STG 661)
AN/ALT-32 Transmitting System (STG 494)

OF PEOPLE IN GROUP: 126
% OF TOTAL SAMPLE: 6%

% ASSIGNED CONUS: 95%
MAJCOM: 98% SAC

AVERAGE TAFMS: 80 months
AVERAGE TICF: 67 months
AVERAGE PAYGRADE: E-4

AVERAGE # OF TASKS: 97
AVERAGE # PERSONS SUPERVISE: 1

WORK AREA: Electronic Warfare Shop
ORGANIZATIONAL LEVEL: Squadron

AIRCRAFT SUPPORTED: 64% B-52G, 45% B-52H
UNIQUE TEST/SHOP EQUIPMENT USED:

Blower assemblies	Ammeters
Force gauges	Crystal diode detectors
Microwave amplifiers	Interface test sets
Positive intrinisic negative modulators	Wattmeters
Pressure gauges	Punch tape reader
Radar simulators	Stroboscopes
Standing wave ratio meters	Sweep oscillators
Transistor testors	Tunable band pass filters
Universal counters	Vacuum-tube testers
Vacuum voltmeters	Variacs

UNIQUE SUPPORT EQUIPMENT USED:

AN/ALM-16	AN/ALM-99	AN/ALM-195
AN/ALM-17B	AN/ALM-115	AN/ALM-244
AN/ALM-23	AN/ALM-134	AN/APM-379
AN/ALM-25	AN/ALM-169	AN/APM-380
AN/ALM-26C	AN/ALM-171	AN/APM-427
AN/ALM-27C	AN/ALM-193	AN/APM-464
AN/ALM-60A	AN/ALM-194	AN/USM-603
HP-8328A	T-1093	

Computerized diagnostic test equipment
Program read-only memory burners
Standard memory load verifier

TOP DUTIES

26%	G	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE
18%	I	PERFORMING ELECTRONIC WARFARE GENERAL SHOP MAINTENANCE
12%	P	MAINTAINING SEMIAUTOMATIC SYSTEMS
10%	F	PERFORMING SUPPLY AND EQUIPMENT FUNCTIONS
6%	M	MAINTAINING TRANSMITTING SYSTEMS

TYPICAL TASKS		PMP
G288	Perform soldering tasks	97
G293	Practice electrostatic discharge (ESD) procedures	96
G283	Interconnect test equipment with LRUs	94
I369	Inspect test bench mockups	94
I379	Remove or install printed circuit board components	94
I384	Repair test bench mockups	94
G281	Inspect coaxial cables	92
I358	Clean air filters	91
G277	Change fuses or circuit breakers	90
G289	Perform support equipment inspections	90
G317	Secure classified property	87
G297	Remove or install coaxial cable connectors	86

TABLE XI (CONTINUED)

B-52G/H SEMIAUTOMATIC SYSTEMS MAINTENANCE
(STG 264)

TYPICAL TASKS		PMP
G304	Remove or install light bulbs	85
G303	Remove or install knobs or controls	84
I376	Remove or install air filters	84
F229	Complete AF Forms 2005 (Issue/Turn-In Request)	83
I371	Isolate test bench mockup malfunctions	83
I359	Crate or uncrate equipment	81
I361	Fabricate coaxial cables	81
G298	Remove or install coaxial cables	79
I382	Remove or install shop replaceable units	79
I365	Ground test bench mockups	77
G282	Inspect waveguide assemblies	75
E220	Operate Core Automated Maintenance System (CAMS)	73
I374	Perform corrosion control treatments on electronic warfare equipment in the shop	73
E178	Annotate or complete AFTO Forms 349 (Maintenance Data Collection Record)	69
F227	Attach or annotate equipment status labels or tags, such as DD Forms 1574 (Serviceable Tag-Materiel)	67
G309	Remove or install multiconductor cables	66
I366	Inspect category II or III electronic warfare support equipment	65
F236	Coordinate with base supply on obtaining parts	63
P792	Visually inspect AN/ALQ-153 semiautomatic system LRUs	63
F265	Research microfiche files for supply requisition data	62
F226	Annotate AF Forms 2413 (Supply Control Log)	61
P759	Perform minimum performance checks on AN/ALQ-153 semiautomatic system LRUs	61
P726	Align AN/ALQ-153 semiautomatic system LRUs	56
P742	Isolate malfunctioning AN/ALQ-153 semiautomatic system LRU subassemblies or components	56
F228	Certify status of repairable, serviceable, or condemned parts	55
P776	Remove or install AN/ALQ-153 semiautomatic system LRU subassemblies or components	54
P794	Visually inspect AN/ALQ-155 semiautomatic system LRUs	45
P728	Align AN/ALQ-155 semiautomatic system LRUs	
P761	Perform minimum performance checks on AN/ALQ-155 semiautomatic system LRUs	44
P744	Isolate malfunctioning AN/ALQ-155 semiautomatic system LRU subassemblies or components	42
P778	Remove or install AN/ALQ-155 semiautomatic system LRU subassemblies or components	41

VARIATIONS

AN/ALQ-153 Semiautomatic System
STG 685

SUBVARIATIONS: AN/ALQ-117 Semiautomatic System (STG 759)
AN/ALR-46/46A Receiving Systems (STG 852)

OF PEOPLE IN VARIATION: 22
% OF GROUP: 17%
AVERAGE # OF TASKS: 92
MAJCOM: 100% SAC

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: B-52G/H
UNIQUE TEST/SHOP EQUIPMENT USED: N/A
UNIQUE SUPPORT EQUIPMENT USED: AN/ALM-171, AN/APM-427, AN/USM-464, RC-20-118

TYPICAL TASKS		PMP
G304	Remove or install light bulbs	100
P726	Align AN/ALQ-153 semiautomatic system LRUs	86
P742	Isolate malfunctioning AN/ALQ-153 semiautomatic system LRU subassemblies or components	86
P792	Visually inspect AN/ALQ-153 semiautomatic system LRUs	86
P776	Remove or install AN/ALQ-153 semiautomatic system LRU subassemblies or components	82
L573	Remove or install AN/ALR-46/46A receiving system LRU subassemblies or components	77
P759	Perform minimum performance checks on AN/ALQ-153 semiautomatic system LRUs	77
L522	Align AN/ALR-46/46A receiving system LRUs	73
L540	Isolate malfunctioning AN/ALR-46/46A receiving system LRU subassemblies or components	73

TABLE XI (CONTINUED)

TYPICAL TASKS		PMP
L555	Perform minimum performance checks on AN/ALR-46/46A receiving system LRUs	73
L590	Visually inspect AN/ALR-46/46A receiving system LRUs	73
E221	Operate general office equipment, such as typewriters or small computers	68
L588	Visually inspect AN/ALR-20A receiving system LRUs	68
N678	Visually inspect AN/ALE-24 dispensing system LRUs	68
P740	Isolate malfunctioning AN/ALQ-117 semiautomatic LRU subassemblies or components	22
L553	Perform minimum performance checks on AN/ALR-20A receiving system LRUs	20
P724	Align AN/ALQ-117 semiautomatic system LRUs	20
P774	Remove or install AN/ALQ-117 semiautomatic system LRU subassemblies or components	20
P790	Visually inspect AN/ALQ-117 semiautomatic system LRUs	20

AN/ALQ-155 Semiautomatic System
STG 439

OF PEOPLE IN VARIATION: 36 — AVERAGE # OF TASKS: 89
% OF GROUP: 29% — MAJCOM: 100% SAC

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: B-52G/H
UNIQUE TEST/SHOP EQUIPMENT USED: Megoammeters
Transistor testors
UNIQUE SUPPORT EQUIPMENT USED: AN/ALM-25, AN/ALM-99, AN/ALM-193, AN/ALM-194, AN/ALM-244

TYPICAL TASKS		PMP
P728	Align AN/ALQ-155 semiautomatic system LRUs	97
P761	Perform minimum performance checks on AN/ALQ-155 semiautomatic system LRUs	97
P744	Isolate malfunctioning AN/ALQ-155 semiautomatic system LRU subassemblies or components	89
P794	Visually inspect AN/ALQ-155 semiautomatic system LRUs	89
P778	Remove or install AN/ALQ-155 semiautomatic system LRU subassemblies or components	86
G318	Service electronic warfare systems with coolants	81
M638	Visually inspect AN/ALT-28 transmitting system LRUs	67

AN/ALQ-172 Semiautomatic System
STG 578

OF PEOPLE IN VARIATION: 14 — AVERAGE # OF TASKS: 86
% OF GROUP: 11% — MAJCOM: 86% SAC

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: B-52G/H
UNIQUE TEST/SHOP EQUIPMENT USED: Logic state analyzers
Vector voltmeters
UNIQUE SUPPORT EQUIPMENT USED: AN/ASM-660
AN/PSM-27
Computerized diagnostic test equipment
Digital subsystem test sets
Maintenance console
Other

TYPICAL TASKS		PMP
P729	Align AN/ALQ-172 semiautomatic system LRUs	100
P762	Perform minimum performance checks on AN/ALQ-172 semiautomatic system LRUs	100
P795	Visually inspect AN/ALQ-172 semiautomatic system LRUs	100
P779	Remove or install AN/ALQ-172 semiautomatic system LRUs subassemblies or components	93
U971	Perform automated diagnostic tests on computer controlled LRUs	93
P745	Isolate malfunctioning AN/ALQ-172 semiautomatic system LRUs	86
I386	Store magnetic tapes or discs	71

TABLE XI (CONTINUED)

AN/ALE-20 & AN/ALE-24 Dispensing Systems
STG 661

SUBVARIATIONS: Technicians (STG 927)
Supervisors (STG 1356)

OF PEOPLE IN VARIATION: 19
% OF GROUP: 15%
AVERAGE # OF TASKS: 162
MAJCOM: 100% SAC

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: B-52G/H
UNIQUE TEST/SHOP EQUIPMENT USED:
Degaussers
Emission testers
Frequency response test sets
Logic state analyzers
Megoammeters
Time domain reflectometers
Transistor testors
Vacuum-tube voltmeters
Vector voltmeters
Wavemeters

UNIQUE SUPPORT EQUIPMENT USED:

AN/ALM-22	AN/ALM-115
AN/ALM-23	AN/APM-427
AN/ALM-25	AN/ASM-660
AN/ALM-27C	AN/USM-430
AN/ALM-99	AN/USM-464

RC-20-118
Antenna systems
Computerized diagnostic test equipment
Electronic signal consoles
Processor test station

TYPICAL TASKS		PMP
D123	Conduct OJT	95
I377	Remove or install batteries	90
D126	Counsel trainees on training progress	89
L540	Isolate malfunctioning AN/ALR-46/46A receiving system LRU subassemblies or components	84
N678	Visually inspect AN/ALE-24 dispensing system LRUs	79
L555	Perform minimum performance checks on AN/ALR-46/46A receiving system LRUs	79
L590	Visually inspect AN/ALR-46/46A receiving system LRUs	79
B42	Counsel subordinates on personal or military matters	79
C94	Evaluate personnel for compliance with performance standards	79
C105	Inspect personnel for compliance with military standards	79
C107	Perform electronic warfare equipment quality control inspections	79
C114	Write EPRs	79
I378	Remove or install category II or III electronic warfare support equipment	79
N656	Isolate malfunctioning AN/ALE-20 dispensing system LRU subassemblies or components	79
A7	Determine work priorities	74
L588	Visually inspect AN/ALR-20A receiving system LRUs	74
B41	Counsel subordinates on job progression or career development	74
B66	Supervise Apprentice Electronic Warfare Systems Specialists (AFSC 45631A)	74
B69	Supervise Electronic Warfare Systems Specialist (AFSC 45651)	74
G324	Transport electronic warfare systems	74
I367	Inspect shop electrical power production units	74
N645	Align AN/ALE-20 dispensing system LRUs	74
N646	Align AN/ALE-24 dispensing system LRUs	74
N652	Clean and lubricate AN/ALE-24 dispensing system LRUs	74
N657	Isolate malfunctioning AN/ALE-24 dispensing system LRU subassemblies or components	74
N663	Perform minimum performance checks on AN/ALE-20 dispensing system LRUs	74
N664	Perform minimum performance checks on AN/ALE-24 dispensing system LRUs	74
N670	Remove or install AN/ALE-20 dispensing system LRU subassemblies or components	74
N671	Remove or install AN/ALE-24 dispensing system LRU subassemblies or components	74
N677	Visually inspect AN/ALE-20 dispensing system LRUs	74
L571	Remove or install AN/ALR-20A receiving system LRU subassemblies or components	68

TABLE XI (CONTINUED)

AN/ALT-32 Transmitting System
STG 494

OF PEOPLE IN VARIATION: 29
% OF GROUP: 23%
AVERAGE # OF TASKS: 80
MAJCOM: 100% SAC

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: B-52G/H
UNIQUE TEST/SHOP EQUIPMENT USED: Vacuum-tube voltmeters
UNIQUE SUPPORT EQUIPMENT USED: AN/ALM-22, AN/ALM-115, AN/ALM-23, AN/ALM-171, AN/ALM-27C, Radio frequency test sets

TYPICAL TASKS		PMP
M608	Align AN/ALT-32 transmitting system LRUs	90
M616	Isolate malfunctioning AN/ALT-32 transmitting system LRU subassemblies or components	90
M624	Perform minimum performance checks on AN/ALT-32 transmitting system LRUs	90
M606	Align AN/ALT-16/16A transmitting system LRUs	86
M614	Isolate malfunctioning AN/ALT-16/16A transmitting system LRUs subassemblies or components	86
M622	Perform minimum performance checks on AN/ALT-16/16A transmitting system LRUs	86
M629	Remove or install AN/ALT-16/16A transmitting system LRU subassemblies or components	83
M631	Remove or install AN/ALT-32 transmitting system LRU subassemblies or components	83
M639	Visually inspect AN/ALT-32 transmitting system LRUs	83
M637	Visually inspect AN/ALT-16/16A transmitting system LRUs	79
P741	Isolate malfunctioning AN/ALQ-122 semiautomatic system LRU subassemblies or components	73
P725	Align AN/ALQ-122 semiautomatic system LRUs	69
P758	Perform minimum performance checks on AN/ALQ-122 semiautomatic system LRUs	69
P775	Remove or install AN/ALQ-122 semiautomatic system LRU subassemblies or components	69
P791	Visually inspect AN/ALQ-122 semiautomatic system LRUs on AN/ALQ-155 semiautomatic	69

TABLE XII

B-52G/H GENERAL SYSTEMS MAINTENANCE
(STG 370)

VARIATIONS: Preflight Operational Checks (STG 867)
Flightline Inspection (613)
Shop Supervisors (STG 699)

OF PEOPLE IN GROUP: 183
% OF TOTAL SAMPLE: 8%

% ASSIGNED CONUS: 96%
MAJCOM: 100% SAC

AVERAGE TAFMS: 78 months
AVERAGE TICF: 67 months
AVERAGE PAYGRADE: E-4

AVERAGE # OF TASKS: 116
AVERAGE # PERSONS SUPERVISE: 2

WORK AREA: Electronic Warfare Flightline
ORGANIZATIONAL LEVEL: Squadron

AIRCRAFT SUPPORTED: 68% B-52G, 36% B-52H
UNIQUE TEST/SHOP EQUIPMENT USED: Pressure gauges
Radar simulators
UNIQUE SUPPORT EQUIPMENT USED: AN/ALM-174, AN/APM-427, AN/ASM-660, AN/USM-464, HP-8328A, T-1022, Standard memory loader verifier

TOP DUTIES

25% G PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE
12% H PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR AIRBORNE MAINTENANCE
12% K ISOLATING MALFUNCTIONS WITHIN ELECTRONIC WARFARE SYSTEMS ON AIRCRAFT
8% J PERFORMING PREFLIGHT OR POSTFLIGHT OPERATIONAL CHECKS ON ELECTRONIC WARFARE SYSTEMS
8% W PERFORMING CROSS UTILIZATION TRAINING (CUT) FUNCTIONS
7% P MAINTAINING SEMIAUTOMATIC SYSTEMS

TYPICAL TASKS		PMP
H348	Upload or download chaff magazines on or off aircraft	97
K467	Isolate malfunctioning AN/ALR-20A receiving system LRUs on aircraft	97
G316	Safety wire units	96
G284	Load or unload chaff magazines	95
G281	Inspect coaxial cables	93
G291	Perform visual inspection of antennas	93
K450	Isolate malfunctioning AN/ALE-20 dispensing system LRUs on aircraft	93
G318	Service electronic warfare systems with coolants	92
K469	Isolate malfunctioning AN/ALR-46/46A receiving system LRUs on aircraft	91
W1025	Apply power to aircraft	91
K451	Isolate malfunctioning AN/ALE-24 dispensing system LRUs on aircraft	90
G299	Remove or install desiccants	89
K473	Isolate malfunctioning AN/ALT-32 transmitting system LRUs on aircraft	90
H346	Remove or install waveguide assemblies	89
K462	Isolate malfunctioning AN/ALQ-155 semiautomatic system LRUs on aircraft	89
W1033	Operate aerospace ground equipment (AGE), such as power units, heaters, light carts, or lifts	89
H338	Perform stray voltage checks on flare systems	88
G275	Brief or debrief flight crews	87
G314	Research technical order wiring or circuit diagrams	87
J411	Perform preflight or postflight operational checks on AN/ALT-155 semiautomatic systems	86
K471	Isolate malfunctioning AN/ALT-16/16A transmitting system LRUs on aircraft	85
G317	Secure classified property	84
G323	Transport classified equipment	84
J389	Perform preflight operational checks on AN/ALE-20 dispensing systems	84
K457	Isolate malfunctioning AN/ALQ-122 semiautomatic system LRUs on aircraft	84
K463	Isolate malfunctioning AN/ALQ-171 semiautomatic system LRUs on aircraft	84
K460	Isolate malfunctioning AN/ALQ-153 semiautomatic system LRUs on aircraft	83

TABLE XII (CONTINUED)

B-52G/H GENERAL SYSTEMS MAINTENANCE
(STG 370)

TYPICAL TASKS		PMP
G324	Transport electronic warfare systems	80
H340	Remove or install aircraft access panels	78
W1053	Walk wings or tails during aircraft towing operations	75
J405	Perform preflight or postflight operational checks on AN/ALE-24 dispensing systems	74
W1040	Position nonpowered or powered AGE to aircraft	70
K481	Isolate malfunctioning blanking systems on aircraft	68
J413	Perform preflight or postflight operational checks on AN/ALQ-172 semiautomatic systems	67
L588	Visually inspect AN/ALR-20A receiving system LRUs	67
N677	Visually inspect AN/ALE-20 dispensing system LRUs	67
N678	Visually inspect AN/ALE-24 dispensing system LRUs	66
J396	Perform preflight operational checks on AN/ALR-20A receiving systems	65
L590	Visually inspect AN/ALR-46/46A receiving system LRUs	65
E220	Operate Core Automated Maintenance System (CAMS)	64
M637	Visually inspect AN/ALT-16/16A transmitting system LRUs	64
M639	Visually inspect AN/ALT-32 transmitting system LRUs	64
K455	Isolate malfunctioning AN/ALQ-117 semiautomatic system LRUs on aircraft	62
J397	Perform preflight operational checks on AN/ALR-46/46A receiving systems	61
W1052	Transport test equipment or units to or from flightline	61
L594	Visually inspect AN/ALQ-155 semiautomatic system LRUs	58

VARIATIONS

Preflight Operational Checks
STG 867

OF PEOPLE IN VARIATION: 6
% OF GROUP: 3%
AVERAGE # OF TASKS: 59
MAJCOM: 100% SAC

WORK AREA: Electronic Warfare Flightline
AIRCRAFT SUPPORTED: B-52G
UNIQUE TEST/SHOP EQUIPMENT USED: N/A
UNIQUE SUPPORT EQUIPMENT USED: AN/ASM-660, AN/USM-464

TYPICAL TASKS		PMP
K460	Isolate malfunctioning AN/ALQ-153 semiautomatic system LRUs on aircraft	100
K471	Isolate malfunctioning AN/ALT-16/16A transmitting system LRUs on aircraft	100
K473	Isolate malfunctioning AN/ALT-32 transmitting system LRUs on aircraft	100
J405	Perform preflight or postflight operational checks on AN/ALE-24 dispensing systems	83
J411	Perform preflight or postflight operational checks on AN/ALQ-155 semiautomatic systems	83
K463	Isolate malfunctioning AN/ALQ-172 semiautomatic system LRUs on aircraft	83
J396	Perform preflight operational checks on AN/ALR-20A receiving systems	50
J397	Perform preflight operational checks on AN/ALE-46/46A receiving systems	50
J399	Perform preflight operational checks on AN/ALT-16/16A transmitting systems	50
J400	Perform preflight operational checks on AN/ALT-32 transmitting systems	50
J411	Perform preflight or postflight operational checks on AN/ALQ-153 semiautomatic systems	50
J413	Perform preflight or postflight operational checks on AN/ALQ-172 semiautomatic systems	50

TABLE XII (CONTINUED)

Flightline Inspection
STG 613

OF PEOPLE IN VARIATION: 157
% OF GROUP: 86%
AVERAGE # OF TASKS: 122
MAJCOM: 100% SAC

WORK AREA: Electronic Warfare Flightline
AIRCRAFT SUPPORTED: B-52G/H
UNIQUE TEST/SHOP EQUIPMENT USED: Crystal diode detectors
Frequency counters
UNIQUE SUPPORT EQUIPMENT USED: AN/ASM-660, AN-USM-464
Standard memory load verifier

TYPICAL TASKS		PMP
G295	Program electronic warfare systems	84
H347	Research technical order data for flightline checkout	84
L588	Visually inspect AN/ALR-20A receiving system LRUs	77
H342	Remove or install electronic warfare radomes	73
G323	Transport classified equipment	72
L590	Visually inspect AN/ALR-46/46A receiving system LRUs	72
J413	Perform preflight or postflight operational checks on AN/ALQ-172 semiautomatic systems	71
H345	Remove or install switches	70
M639	Visually inspect AN/ALT-32 transmitting system LRUs	69
P792	Visually inspect AN/ALQ-122 semiautomatic system LRUs	64
P794	Visually inspect AN/ALQ-155 semiautomatic system LRUs	63
P792	Visually inspect AN/ALQ-153 semiautomatic system LRUs	60
P795	Visually inspect AN/ALQ-172 semiautomatic system LRUs	57

Shop Supervisor
STG 699

OF PEOPLE IN VARIATION: 7
% OF GROUP: 4%
AVERAGE # OF TASKS: 98
MAJCOM: 100% SAC

WORK AREA: Ground Maintenance Shop
Other
AIRCRAFT SUPPORTED: B-52H
UNIQUE TEST/SHOP EQUIPMENT USED: Force gauges
Frequency response test sets
Printers
Standing wave ratio meters
UNIQUE SUPPORT EQUIPMENT USED: Computerized diagnostic test equipment

TYPICAL TASKS		PMP
G317	Secure classified property	100
D123	Conduct OJT	86
H329	Perform cable frequency response and standing wave ratio (SWR) checks	86
B42	Counsel subordinates on personal or military matters	71
C105	Inspect personnel for compliance with military standards	71
A17	Establish performance standards for subordinates	57

TABLE XIII

System 27 Maintenance
(STG 595)

VARIATION: System 20 Receiving System (STG 838)

OF PEOPLE IN GROUP: 16
% OF TOTAL SAMPLE: 0.7%

% ASSIGNED CONUS: 88%
MAJCOM: 100% SAC (Beale AFB)

AVERAGE TAFMS: 94 months
AVERAGE TICF: 83 months
AVERAGE PAYGRADE: E-5

AVERAGE # OF TASKS: 119
AVERAGE # PERSONS SUPERVISE: 1

WORK AREA: Electronic Warfare Shop
ORGANIZATIONAL LEVEL: Squadron

AIRCRAFT SUPPORTED: 100% TR-1, 81% U-2R
UNIQUE TEST/SHOP EQUIPMENT USED:
Audio oscillators
Blower assemblies
Crystal diode detectors
Degaussers
Interface test sets
Pressure gauges
Radar Simulators
Sweep oscillators
Tape system calibrators
Tunable band pass filters
Universal counters
Variacs
Video multicouplers
Other

UNIQUE SUPPORT EQUIPMENT USED:
Ground playback station recorders
Recorder control unit
Signal data distribution unit
Other

TOP DUTIES

27%	G	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE
13%	F	PERFORMING SUPPLY AND EQUIPMENT FUNCTIONS
11%	H	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR AIRBORNE MAINTENANCE
8%	E	PERFORMING ADMINISTRATIVE FUNCTIONS
6%	I	PERFORMING ELECTRONIC WARFARE GENERAL SHOP MAINTENANCE
5%	L	MAINTAINING RECEIVING SYSTEMS
5%	J	PERFORMING PREFLIGHT OR POSTFLIGHT OPERATIONAL CHECKS ON ELECTRONIC WARFARE SYSTEMS

TYPICAL TASKS		PMP
E178	Annotate or complete AFTO Forms 349 (Maintenance Data Collection Record)	100
G294	Pressurize equipment	100
G298	Remove or install coaxial cables	100
G324	Transport electronic warfare systems	100
H335	Perform phase inspections on aircraft	100
H340	Remove or install aircraft access panels	100
H343	Remove or install equipment to facilitate other maintenance	100
J439	Perform preflight or postflight operational checks on system 27	100
R883	Visually inspect "C" recorders	100
G275	Brief or debrief flight crews	94
G279	Degauss tape heads	94
G280	Degauss tapes	94
G289	Perform support equipment inspections	94
G305	Remove or install magnetic tapes	94
G314	Research technical order wiring or circuit diagrams	94
G317	Secure classified property	94
H326	Inventory aircraft equipment	94

TABLE XIII (CONTINUED)

System 27 Maintenance
(STG 595)

TYPICAL TASKS		PMP
J403	Perform preflight or postflight operational checks on "C" recorders	94
L586	Remove or install system 27 LRUs	94
L604	Visually inspect system 27 LRUs	94
R871	Remove or install "C" recorders	94
G278	Clean tape heads	88
G323	Transport classified equipment	88
G281	Inspect coaxial cables	81
K510	Isolate malfunctioning system 27 receiving system LRUs on aircraft	81
R855	Perform minimum performance checks on "C" recorders	81
E220	Operate Core Automated Maintenance System (CAMS)	75
G283	Interconnect test equipment with LRUs	75
J432	Perform preflight or postflight operational checks on expanded airborne multiplexing units (EAMU)	75

VARIATION

System 20 Receiving System
STG 838

OF PEOPLE IN VARIATION: 6
% OF GROUP: 38%
AVERAGE # OF TASKS: 155
MAJCOM: 100% SAC

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: TR-1, U-2R
UNIQUE TEST/SHOP EQUIPMENT USED:
Audio oscillators
Blower assemblies
Calculators
Crystal diode detectors
Degaussers
Frequency counters
Interface test sets
Memory devices
Modulators
Noise figure meter
Power supplies
Printers
Pulse analyzers
Signal source
Sweep oscillators
Tape system calibrators
Tunable band pass filters
Universal counters
Variacs
Video multicouplers
Other
UNIQUE SUPPORT EQUIPMENT USED:
Ground playback station recorders
Other

TYPICAL TASKS		PMP
I358	Clean air filters	100
L535	Align system 20 receiving system LRUs	100
L550	Isolate malfunctioning system 20 receiving system LRU subassemblies or components	100
L568	Perform minimum performance checks on system 20 receiving system LRUs	100
L585	Remove or install system 20 receiving system LRU subassemblies or components	100
I366	Inspect category II or III electronic warfare support equipment	83
K509	Isolate malfunctioning system 20 receiving system LRUs on aircraft	83

TABLE XIV

IN-FLIGHT MAINTENANCE (SAC RC-135U/V/W)
(STG 325)

VARIATIONS: N/A

OF PEOPLE IN GROUP: 7
% OF TOTAL SAMPLE: .3%

% ASSIGNED CONUS: 100%
MAJCOM: 100% SAC

AVERAGE TAFMS: 131 months
AVERAGE TICF: 128 months
AVERAGE PAYGRADE: E-5/6

AVERAGE # OF TASKS: 73
AVERAGE # PERSONS SUPERVISE: 0

WORK AREA: In-Flight Maintenance Section
ORGANIZATIONAL LEVEL: Squadron

AIRCRAFT SUPPORTED: 86% RC-135V/W, 29% RC-135U
UNIQUE TEST/SHOP EQUIPMENT USED: Ammeters
Microwave amplifiers
Punch tape reader
Sweep oscillators
UNIQUE SUPPORT EQUIPMENT USED: Electronic signal measurement consoles
Maintenance console

TOP DUTIES

19%	K	ISOLATING MALFUNCTIONS WITHIN ELECTRONIC WARFARE SYSTEMS ON AIRCRAFT
16%	G	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE
13%	H	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR AIRBORNE MAINTENANCE
10%	J	PERFORMING PREFLIGHT OR POSTFLIGHT OPERATIONAL CHECKS ON ELECTRONIC WARFARE SYSTEMS
9%	L	MAINTAINING RECEIVING SYSTEMS
9%	R	MAINTAINING RECORDING OR REPRODUCING SYSTEMS

TYPICAL TASKS		PMP
H325	Analyze in-flight malfunctions	100
H332	Perform in-flight checkouts of electronic equipment	100
H333	Perform in-flight maintenance of electronic equipment	100
K479	Isolate malfunctioning AN/USH-24 recording system LRUs on aircraft	100
K519	Isolate malfunctioning WJ-1740 receiving system LRUs on aircraft	100
L605	Visually inspect WJ-1740 receiving system LRUs	100
G277	Change fuses or circuit breakers	86
G304	Remove or install light bulbs	86
J420	Perform preflight or postflight operational checks on AN/USH-24 recording systems	86
J443	Perform preflight or postflight operational checks on video distribution (VIDIS) systems	86
K504	Isolate malfunctioning radio frequency (RF) distribution systems on aircraft	86
K505	Isolate malfunctioning Rivet Joint systems on aircraft	86
K518	Isolate malfunctioning VIDIS recording system LRUs on aircraft	86
G305	Remove or install magnetic tapes	71
G317	Secure classified property	71
H354	Upload or download photographic film onto aircraft	71
J435	Perform preflight or postflight operational checks on Rivet Joint systems	71
J445	Perform preflight or postflight operational checks on WJ-1740 receiving systems	71
K502	Isolate malfunctioning in-flight maintenance stations on aircraft	71
L570	Perform minimum performance checks on WJ-1740 receiving system LRUs	71
R886	Visually inspect AN/USH-24 recording system LRUs	71
J444	Perform preflight or postflight operational checks on video recorders	57
K481	Isolate malfunctioning blanking systems on aircraft	57
K493	Isolate malfunctioning electronic warfare systems displays on aircraft	57
K503	Isolate malfunctioning QRC system LRUs	57
L552	Isolate malfunctioning WJ-1740 receiving system LRU subassemblies or components	57
R852	Isolate malfunctioning battle station recording system LRU subassemblies or components	57
R849	Isolate malfunctioning adviser 62 recording system LRU subassemblies or components	43

TABLE XV

FLIGHTLINE MAINTENANCE (SAC RC-135U/V/W)
(STG 522)

VARIATIONS: 10-HIGH EW System (STG 882)
QRC Systems (STG 781)

OF PEOPLE IN GROUP: 37
% OF TOTAL SAMPLE: 2%

% ASSIGNED CONUS: 59%
MAJCOM: 100% SAC

AVERAGE TAFMS: 93 months
AVERAGE TICF: 86 months
AVERAGE PAYGRADE: E-4/5

AVERAGE # OF TASKS: 136
AVERAGE # PERSONS SUPERVISE: 2

WORK AREA: Electronic Warfare Flightline
ORGANIZATIONAL LEVEL: Squadron, Wing

AIRCRAFT SUPPORTED: 100% RC-135V/W, 59% RC-135U
UNIQUE TEST/SHOP EQUIPMENT USED: Ammeters
Microwave amplifiers
Wattmeters
UNIQUE SUPPORT EQUIPMENT USED: Electronic signal measurement consoles

TOP DUTIES

21%	G	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE
10%	H	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR AIRBORNE MAINTENANCE
7%	K	ISOLATING MALFUNCTIONS WITHIN ELECTRONIC WARFARE SYSTEMS ON AIRCRAFT
7%	L	MAINTAINING RECEIVING SYSTEMS
7%	R	MAINTAINING RECORDING OR REPRODUCING SYSTEMS
5%	J	PERFORMING PREFLIGHT OR POSTFLIGHT OPERATIONAL CHECKS ON ELECTRONIC WARFARE SYSTEMS
5%	T	MAINTAINING ELECTRONIC RECONNAISSANCE SYSTEMS

TYPICAL TASKS		PMP
G297	Remove or install coaxial cable connectors	100
G317	Secure classified property	100
G281	Inspect coaxial cables	97
G314	Research technical order wiring or circuit diagrams	97
H340	Remove or install aircraft access panels	97
L605	Visually inspect WJ-1740 receiving system LRUs	97
G275	Brief or debrief flight crews	95
H353	Upload or download magnetic tapes onto aircraft	95
K519	Isolate malfunctioning WJ-1740 receiving system LRUs on aircraft	95
L537	Align WJ-1740 receiving system LRUs	95
L570	Perform minimum performance checks on WJ-1740 receiving system LRUs	95
G278	Clean tape heads	92
G298	Remove or install coaxial cables	92
L587	Remove or install WJ-1740 receiving system LRU subassemblies or components	89
L587	Remove or install WJ-1740 receiving system LRU subassemblies or components	89
K518	Isolate malfunctioning VIDIS recording system LRUs on aircraft	86
G308	Remove or install multiconductor cable connectors	81
J445	Perform preflight or postflight operational checks on WJ-1740 receiving systems	81
Q828	Remove or install QRC direction-finding system LRU subassemblies or components	81
K504	Isolate malfunctioning radio frequency (RF) distribution systems on aircraft	78
K503	Isolate malfunctioning QRC system LRUs	76
K505	Isolate malfunctioning Rivet Joint systems on aircraft	76
L552	Isolate malfunctioning WJ-1740 receiving system LRU subassemblies or components	73
Q816	Isolate malfunctioning QRC direction-finding system LRU subassemblies or components	73
T942	Visually inspect electronic reconnaissance blanking system LRUs	73
P756	Isolate malfunctioning 10-HIGH electronic warfare system	70
P804	Visually inspect 10-HIGH electronic warfare system	70
Q834	Visually inspect QRC direction finding system LRUs	70
T927	Perform minimum performance checks on electronic reconnaissance RF distribution system LRUs	70
J444	Perform preflight or postflight operational checks on video recorders	65
L601	Visually inspect QRC receiving system LRUs	65

TABLE XV (CONTINUED)

FLIGHTLINE MAINTENANCE (SAC RC-135U/V/W)
(STG 522)

TYPICAL TASKS		PMP
P773	Perform minimum performance checks on 10-HIGH electronic warfare system	65
Q810	Align QRC direction finding system LRUs	65
Q822	Perform minimum performance checks on QRC direction-finding system LRUs	65
R861	Perform minimum performance checks on adviser 62 recording system LRUs	65
J434	Perform preflight or postflight operational checks on quick reaction capability (QRC) equipment	59
L566	Perform minimum performance checks on QRC receiving system LRUs	59
T920	Isolate malfunctioning electronic reconnaissance RF distribution system LRU subassemblies or components	59
L583	Remove or install QRC receiving system LRU subassemblies or components	57

VARIATIONS

10-High EW Systems
STG 882

OF PEOPLE IN VARIATION: 18
% OF GROUP: 49%
AVERAGE # OF TASKS: 103
MAJCOM: 100% SAC

WORK AREA: Electronic Warfare Flightline
AIRCRAFT SUPPORTED: RC-135U/V/W
UNIQUE TEST/SHOP EQUIPMENT USED: Degaussers
Time domain reflectometers
UNIQUE SUPPORT EQUIPMENT USED: Electronic signal measurement consoles
Maintenance console

TYPICAL TASKS		PMP
G287	Perform phase inspections of electronic warfare equipment	94
G282	Inspect waveguide assemblies	89
H335	Perform phase inspections on aircraft	89
P756	Isolate malfunctioning 10-HIGH electronic warfare system	83
P804	Visually inspect 10-HIGH electronic warfare system	83
H334	Perform periodic inspections of electronic warfare equipment	78
P773	Perform minimum performance checks on 10-HIGH electronic warfare system	78
R86i	Perform minimum performance checks on adviser 62 recording system LRUs	72
R873	Remove or install adviser 62 recording system LRU subassemblies or components	67
R885	Visually inspect adviser 62 recording system LRUs	67

QRC Systems
STG 781

OF PEOPLE IN VARIATION: 18
% OF GROUP: 49%
AVERAGE # OF TASKS: 169
MAJCOM: 100% SAC

WORK AREA: Electronic Warfare Flightline
Electronic Warfare Shop
AIRCRAFT SUPPORTED: RC-135U/V/W
UNIQUE TEST/SHOP EQUIPMENT USED: Calculators
Noise figure meters
Sweep oscillators
Tunable band pass filters
Vector voltmeters
Wattmeters
UNIQUE SUPPORT EQUIPMENT USED: Computerized diagnostic test equipment
Tuner test sets

TABLE XV (CONTINUED)

TYPICAL TASKS		PMP
G283	Interconnect test equipment with LRUs	100
K503	Isolate malfunctioning QRC system LRUs	94
Q834	Visually inspect QRC direction-finding system LRUs	89
Q816	Isolate malfunctioning QRC direction-finding system LRU subassemblies or components	89
T919	Isolate malfunctioning electronic reconnaissance blanking system LRU subassemblies or components	89
T926	Perform minimum performance checks on electronic reconnaissance blanking system LRUs	89
T935	Remove or install electronic reconnaissance blanking system LRU subassemblies or components	89
L601	Visually inspect QRC receiving system LRUs	83
G289	*Perform support equipment inspections*	78
L583	Remove or install QRC receiving system LRU subassemblies or components	78
T920	Isolate malfunctioning electronic reconnaissance RF distribution system LRU subassemblies or components	78
K493	Isolate malfunctioning electronic warfare systems displays on aircraft	72
L548	Isolate malfunctioning QRC receiving system LRU subassemblies or components	72
F236	Coordinate with base supply on obtaining parts	67
I379	Remove or install printed circuit board components	67
R840	Align battle station recording system LRUs	67
T922	Isolate malfunctioning QRC electronic reconnaissance system LRU subassemblies or components	67
T931	Perform minimum performance checks on QRC electronic reconnaissance system LRUs	67

TABLE XVI

FLIGHTLINE JOB CONTROL
(STG 364)

VARIATIONS: N/A

OF PEOPLE IN GROUP: 7
% OF TOTAL SAMPLE: 0.3%

% ASSIGNED CONUS: 71%
MAJCOM: 57% SAC

AVERAGE TAFMS: 198 months
AVERAGE TICF: 150 months
AVERAGE PAYGRADE: E-7

AVERAGE # OF TASKS: 43
AVERAGE # PERSONS SUPERVISE: 9

WORK AREA: Airborne Maintenance Flightline
Electronic Warfare Flightline
Production Control
ORGANIZATIONAL LEVEL: Squadron

AIRCRAFT SUPPORTED: 29% B-52G/H
UNIQUE TEST/SHOP EQUIPMENT USED: None
UNIQUE SUPPORT EQUIPMENT USED: Other

TOP DUTIES

28% A ORGANIZING AND PLANNING
20% B DIRECTING AND IMPLEMENTING
16% C EVALUATING AND INSPECTING
15% W PERFORMING CROSS UTILIZATION TRAINING (CUT) FUNCTIONS

TYPICAL TASKS		PMP
A3	Coordinate flightline or shop maintenance activities with maintenance offices	100
A4	Coordinate work activities with other sections or agencies	100
A7	Determine work priorities	100
B47	Direct flightline maintenance	100
W1034	Operate or service maintenance dispatch vehicles	100
A21	Participate in meetings, such as staff meetings, briefings, conferences, or workshops	86
B42	Counsel subordinates on personal or military matters	86
A33	Review flight schedules	71
A35	Schedule work assignments and priorities	71
B37	Adjust daily maintenance plans to meet operational commitments	71
B62	Interpret policies, directives, or procedures for subordinates	71
B71	Supervise military personnel with AFSC other than 456X1	71
C72	Analyze workload requirements	71
C78	Evaluate completed maintenance	71
E204	Initiate or complete aircraft maintenance forms, such as AFTO Forms 781 series	71
A5	Determine personnel requirements	57
B69	Supervise Electronic Warfare Systems Specialist (AFSC 45651)	57
F245	Evaluate work orders for recurring aircraft or equipment problems	57
W1051	Tow nonpowered AGE	57
A27	Plan work assignments	43
C86	Evaluate maintenance or use of workspace, equipment, or supplies	43
C94	Evaluate personnel for compliance with performance standards	43
A8	Develop equipment utilization or maintenance schedules	29

TABLE XVII

MAINTENANCE ANALYSIS
(STG 299)

VARIATIONS: N/A

OF PEOPLE IN GROUP: 5
% OF TOTAL SAMPLE: 0.2%

% ASSIGNED CONUS: 80%
MAJCOM: 80% SAC

AVERAGE TAFMS: 130 months
AVERAGE TICF: 95 months
AVERAGE PAYGRADE: E-5

AVERAGE # OF TASKS: 10
AVERAGE # PERSONS SUPERVISE: 0

WORK AREA: Maintenance Analysis
ORGANIZATIONAL LEVEL: Squadron

AIRCRAFT SUPPORTED: 40% RC-135V/W, 40% B-52G
UNIQUE TEST/SHOP EQUIPMENT USED: None
UNIQUE SUPPORT EQUIPMENT USED: N/A

TOP DUTIES

55% E PERFORMING ADMINISTRATIVE FUNCTIONS
17% C EVALUATING AND INSPECTING
12% A ORGANIZING AND PLANNING

TYPICAL TASKS		PMP
E220	Operate Core Automated Maintenance System (CAMS)	100
E221	Operate general office equipment, such as typewriters or small computers	100
B38	Compile information for reports or staff studies	80
C112	Review maintenance data collection forms	80
A21	Participate in meetings, such as staff meetings, briefings, conferences, or workshops	60
E205	Initiate or complete automated Significant Historical Data records, such as AFTO Forms 95	60
E197	Initiate AF Forms 2422 (Maintenance Analysis Referral)	40

TABLE XVIII

ESC MAINTENANCE
(STG 290)

VARIATIONS: U-2/TR-1 Systems (STG 367)
RC-135 Systems (STG 431)

OF PEOPLE IN GROUP: 36
% OF TOTAL SAMPLE: 2%

% ASSIGNED CONUS: 28%
MAJCOM: 83% ESC

AVERAGE TAFMS: 90 months
AVERAGE TICF: 80 months
AVERAGE PAYGRADE: E-4/5

AVERAGE # OF TASKS: 85
AVERAGE # PERSONS SUPERVISE: 2

WORK AREA: Airborne Maintenance Shop
Ground Maintenance Shop
ORGANIZATIONAL LEVEL: Squadron

AIRCRAFT SUPPORTED: 50% TR-1
UNIQUE TEST/SHOP EQUIPMENT USED: Antenna position fixtures
Blower assemblies
Boresight equipment
Breakout boxes
Crystal diode detectors
Dummy loads
Interface test sets
Microwave amplifiers
Modulators
Network state analyzers
Noise figure meters
Positive intrinsic negative modulators
Pressure gauges
Pulse analyzers
Signal sources
Time domain reflectometers
Tunable band pass filters
Universal counters
Vector voltmeters
Wattmeters
X-Y plotters
X-Y recorders
UNIQUE SUPPORT EQUIPMENT USED: Antenna systems
Other

TOP DUTIES

34%	G	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE
11%	H	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR AIRBORNE MAINTENANCE
10%	F	PERFORMING SUPPLY AND EQUIPMENT FUNCTIONS
10%	I	PERFORMING ELECTRONIC WARFARE GENERAL SHOP MAINTENANCE
7%	E	PERFORMING ADMINISTRATIVE FUNCTIONS

TYPICAL TASKS		PMP
G297	Remove or install coaxial cable connectors	100
G293	Practice electrostatic discharge (ESD) procedures	97
G308	Remove or install multiconductor cable connectors	97
G317	Secure classified property	97
G288	Perform soldering tasks	94
G298	Remove or install coaxial cables	94
G309	Remove or install multiconductor cables	94
G314	Research technical order wiring or circuit diagrams	92
G281	Inspect coaxial cables	89
G291	Perform visual inspection of antennas	89
G306	Remove or install minor hardware, such as latches, screws, or hinges	89

TABLE XVIII (CONTINUED)

ESC MAINTENANCE
(STG 290)

TYPICAL TASKS		PMP
G315	Research technical orders to identify components or items of equipment	89
F229	Complete AF Forms 2005 (Issue/Turn-In Request)	86
G307	Remove or install mounting brackets or fixtures	83
H335	Perform phase inspections on aircraft	83
H341	Remove or install antennas	83
G277	Change fuses or circuit breakers	81
G283	Interconnect test equipment with LRUs	81
I361	Fabricate coaxial cables	81
G304	Remove or install light bulbs	78
H340	Remove or install aircraft access panels	78
H343	Remove or install equipment to facilitate other maintenance	78
G289	Perform support equipment inspections	75
G303	Remove or install knobs or controls	75
I382	Remove or install shop replaceable units	69
E178	Annotate or complete AFTO Forms 349 (Maintenance Data Collection Record)	67
F227	Attach or annotate equipment status labels or tags, such as DD Forms 1574 (Serviceable Tag-Materiel)	67
F248	Inventory equipment, tools, or supplies, other than aircraft equipment or consolidated tool kits (CTK)	67
G319	Splice coaxial cables	67
G322	Splice multiconductor cables	67
G323	Transport classified equipment	67
G286	Perform antenna checkouts	64
I358	Clean air filters	64
I363	Fabricate multiconductor cables	64
W1025	Apply power to aircraft	64
W1028	Inventory consolidated tool kits (CTK)	58
W1033	Operate aerospace ground equipment (AGE), such as power units, heaters, light carts, or lifts	58
H325	Analyze in-flight malfunctions	56
K485	Isolate malfunctioning data link systems on aircraft	53

VARIATIONS

U-2/TR-1 Systems
STG 367

OF PEOPLE IN VARIATION: 24
% OF GROUP: 67%
AVERAGE # OF TASKS: 90
MAJCOM: 100% ESC

WORK AREA: Airborne Maintenance Shop
Airborne Maintenance Flightline
Ground Maintenance Shop
AIRCRAFT SUPPORTED: TR-1, U-2R
UNIQUE TEST/SHOP EQUIPMENT USED: [illegible]enna position fixtures
[illegible]er assemblies
[illegible]esight equipment
Breakout boxes
Calculators
Pressure gauges
Time domain reflectometers
Variable delay lines
X-Y plotter
X-Y recorder
UNIQUE SUPPORT EQUIPMENT USED: Antenna systems
Intermediate frequency test sets
Maintenance console
Radio frequency test sets
Signal data distribution unit
Other

TABLE XVIII (CONTINUED)

TYPICAL TASKS		PMP
H335	Perform phase inspections on aircraft	100
H341	Remove or install antennas	100
F229	Complete AF Forms 2005 (Issue/Turn-In Request)	96
H343	Remove or install equipment to facilitate other maintenance	96
G289	Perform support equipment inspections	92
G286	Perform antenna checkouts	88
E178	Annotate or complete AFTO Forms 349 (Maintenance Data Collection Record)	83
W1025	Apply power to aircraft	83
K485	Isolate malfunctioning data link systems on aircraft	75
W1028	Inventory consolidated tool kits (CTK)	75
F227	Attach or annotate equipment status labels or tags, such as DD Forms 1574 (Serviceable Tag-Materiel)	71
H325	Analyze in-flight malfunctions	71
W1033	Operate aerospace ground equipment (AGE), such as power units, heaters, light carts, or lifts	71
E1..	Annotate AFTO Forms 244 and 245 (Industrial/Support Equipment Record)	67

RC-135 Systems
STG 431

OF PEOPLE IN VARIATION: 6
% OF GROUP: 17%
AVERAGE # OF TASKS: 81
MAJCOM: 33% ESC, 33% SAC

WORK AREA: Airborne Maintenance Shop
Electronic Warfare Shop
AIRCRAFT SUPPORTED: RC-135U/V/W
UNIQUE TEST/SHOP EQUIPMENT USED: Crystal diode detectors
Decade boxes
Noise figure meters
Positive intrinisic negative modulators
Radar simulators
Transistor testers
Variacs
Wavemeters
UNIQUE SUPPORT EQUIPMENT USED: Program read only memory burners

TYPICAL TASKS		PMP
I369	Inspect test bench mockups	100
I384	Repair test bench mockups	100
I365	Ground test bench mockups	83
I376	Remove or install air filters	83
I379	Remove or install printed circuit board components	83
I364	Fabricate test bench mockups	67
I371	Isolate test bench mockup malfunctions	67

TABLE XIX

VARIATIONS

GENERAL SHOP MAINTENANCE
(STG 170)

VARIATIONS: Support Equipment (STG 234)
Test Bench Mockups (STG 361)
Ground Maintenance (STG 382)

OF PEOPLE IN GROUP: 37
% OF TOTAL SAMPLE: 2%

% ASSIGNED CONUS: 76%
MAJCOM: 57% ESC, 41% SAC

AVERAGE TAFMS: 75 months
AVERAGE TICF: 69 months
AVERAGE PAYGRADE: E-4

AVERAGE # OF TASKS: 48
PERSONS SUPERVISE: 0

WORK AREA: Electronic Warfare Shop
Airborne Maintenance Shop
ORGANIZATIONAL LEVEL: Squadron

AIRCRAFT SUPPORTED: 73% RC-135W, 70% RC-135V, 62% RC-135U
UNIQUE TEST/SHOP EQUIPMENT USED: Blower assemblies
Breakout boxes
Decade boxes
Dummy loads
Interface test sets
Modulators
Noise figure meters
Signal source
Transistor testors
Wattmeters
UNIQUE SUPPORT EQUIPMENT USED: ATE-100 taper evaluators
K-80 tape degaussers
VTE-200 tape evaluators
Other

TOP DUTIES

41% G PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE
17% I PERFORMING ELECTRONIC WARFARE GENERAL SHOP MAINTENANCE
10% F PERFORMING SUPPLY AND EQUIPMENT FUNCTIONS
5% U MAINTAINING ELECTRONIC WARFARE SUPPORT EQUIPMENT

TYPICAL TASKS		PMP
G304	Remove or install light bulbs	97
G288	Perform soldering tasks	95
F229	Complete AF Forms 2005 (Issue/Turn-In Request)	92
G306	Remove or install minor hardware, such as latches, screws, or hinges	92
G293	Practice electrostatic discharge (ESD) procedures	86
G277	Change fuses or circuit breakers	81
G283	Interconnect test equipment with LRUs	78
G303	Remove or install knobs or controls	78
G315	Research technical orders to identify components or items of equipment	78
G297	Remove or install coaxial cable connectors	76
I358	Clean air filters	76
G278	Clean tape heads	73
G308	Remove or install multiconductor cable connectors	73
G280	Degauss tapes	70
G281	Inspect coaxial cables	70
G314	Research technical order wiring or circuit diagrams	70
I379	Remove or install printed circuit board components	70
I376	Remove or install air filters	65
G298	Remove or install coaxial cables	62
G305	Remove or install magnetic tapes	57
G309	Remove or install multiconductor cables	57

TABLE XIX (CONTINUED)

GENERAL SHOP MAINTENANCE
(STG 170)

TYPICAL TASKS		PMP
G317	Secure classified property	57
I361	Fabricate coaxial cables	57
G279	Degauss tape heads	51
F265	Research microfiche files for supply requisition data	49
E178	Annotate or complete AFTO Forms 349 (Maintenance Data Collection Record)	46
F226	Annotate AF Forms 2413 (Supply Control Log)	43
I369	Inspect test bench mockups	
F227	Attach or annotate equipment status labels or tags, such as DD Forms 1574 (Serviceable Tag-Materiel)	41
I382	Remove or install shop replaceable units	41

VARIATIONS

Support Equipment
STG 234

OF PEOPLE IN VARIATION: 6
% OF GROUP: 16%
AVERAGE # OF TASKS: 29
MAJCOM: 83% ESC

WORK AREA: Airborne Maintenance Shop
AIRCRAFT SUPPORTED: RC-135U/V/W
UNIQUE TEST/SHOP EQUIPMENT USED: Universal counters
Variacs
UNIQUE SUPPORT EQUIPMENT USED: Other

TYPICAL TASKS		PMP
I376	Remove or install air filters	83
U984	Perform operational checks on peripheral computer terminal keyboards	67
E187	Complete Field Maintenance Reports (FMR)	50
H353	Upload or download magnetic tapes onto aircraft	50
U977	Perform diagnostic tests on peripheral computer terminal keyboards	50

Test Bench Mockups
STG 361

SUBVARIATIONS: Advisor 62 Recording system (STG 517)
10 High EW System (STG 603)

OF PEOPLE IN VARIATION: 15
% OF GROUP: 41%
AVERAGE # OF TASKS: 56
MAJCOM: 100% SAC

SUBVARIATIONS: Adviser 62 recording system (STG 517)
10-High (STG 603)

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: RC-135U/V/W
UNIQUE TEST/SHOP EQUIPMENT USED: Breakout boxes
Decade boxes
Modulators
UNIQUE SUPPORT EQUIPMENT USED: ATE-100 tape evaluators
K-80 tape degaussers
Signal data distribution unit
VTE-200 tape evaluators
Other

TABLE XIX (CONTINUED)

Test Bench Mockups
STG 361

TYPICAL TASKS		PMP
G308	Remove or install multiconductor cable connectors	100
I369	Inspect test bench mockups	80
I375	Recertify magnetic tapes	80
I384	Repair test bench mockups	80
I361	Fabricate coaxial cables	73
I365	Ground test bench mockups	73
I371	Isolate test bench mockup malfunctions	73
L605	Visually inspect WJ-1740 receiving system LRUs	73
E175	Annotate AFTO Forms 244 and 245 (Industrial/Support Equipment Record)	67
I363	Fabricate multiconductor cables	67
I364	Fabricate test bench mockups	67
L537	Align WJ-1740 receiving system LRUs	67

Adviser 62 Recording System
(STG 517)

UNIQUE TASKS		PMP
R885	Visually inspect adviser 62 recording system LRU	100
R849	Isolate malfunctioning adviser 62 recording system LRU subassemblies or components	83
R873	Remove or install adviser 62 recording system LRU subassemblies or components	83

10-High EW System
(STG 603)

UNIQUE TASKS		PMP
P739	Align 10-High electronic warfare system	100
P773	Perform minimum performance checks on 10-High electronic warfare system	100
P804	Visually inspect 10-High electronic warfare system	80

Ground Maintenance
STG 382

OF PEOPLE IN VARIATION: 11 — AVERAGE # OF TASKS: 48
% OF GROUP: 30% — MAJCOM: 100% ESC

WORK AREA: Airborne Maintenance Shop
Ground Maintenance Shop
AIRCRAFT SUPPORTED: RC-135U/V/W
UNIQUE TEST/SHOP EQUIPMENT USED: Vacuum-tube testers
Vacuum-tube voltmeters
UNIQUE SUPPORT EQUIPMENT USED: N/A

TYPICAL TASKS		PMP
G278	Clean tape heads	100
G279	Degauss tape heads	91
G305	Remove or install magnetic tapes	82
G317	Secure classified property	82
G298	Remove or install coaxial cables	73
I356	Adjust tape recorder brakes	72

TABLE XX

AIRBORNE MAINTENANCE
(STG191)

VARIATIONS: Support Equipment (STG 785)
Semiautomatic Systems (STG 1057)
AN/USH-24 Recording System (STG 482)
ES-142/142A Receiving System (STG 508)
Comfy Levi (STG 559)
Shift Supervisors (STG 513)

OF PEOPLE IN GROUP: 128
% OF TOTAL SAMPLE: 6%

% ASSIGNED CONUS: 45%
MAJCOM: 87% ESC

AVERAGE TAFMS: 91 months
AVERAGE TICF: 80 months
AVERAGE PAYGRADE: E-5

AVERAGE # OF TASKS: 135
AVERAGE # PERSONS SUPERVISE: 1

WORK AREA: Airborne Maintenance Shop
Airborne Maintenance Flightline
ORGANIZATIONAL LEVEL: Squadron

AIRCRAFT SUPPORTED: 70% RC-135V, 66% RC-135W, 24% RC-135U
UNIQUE TEST/SHOP EQUIPMENT USED: Blower assemblies
Breakout boxes
Decade boxes
Dummy loads
Interface test sets
Microwave amplifiers
Modulators
Network state analyzers
Noise figure meters
Pressure gauges
Pulse analyzers
Punch tape reader
Signal source
Standing wave ratio meters
Tape system calibrators
Time domain reflectometers
Transistor testors
Tunable band pass filters
Universal counters
Vacuum tube voltmeters
Variacs
Wattmeters
UNIQUE SUPPORT EQUIPMENT USED: Antenna systems
Digital subsystem test sets
Electronic signal measurement consoles
Ground playback station recorders
Program read only memory burners
Processor test station
Radio frequency test sets
Recorder control unit

TOP DUTIES

23%	G	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE
15%	U	MAINTAINING ELECTRONIC WARFARE SUPPORT EQUIPMENT
8%	I	PERFORMING ELECTRONIC WARFARE GENERAL SHOP MAINTENANCE
7%	F	PERFORMING SUPPLY AND EQUIPMENT FUNCTIONS
6%	H	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR AIRBORNE MAINTENANCE
5%	E	PERFORMING ADMINISTRATIVE FUNCTIONS

TABLE XX (CONTINUED)

AIRBORNE MAINTENANCE
(STG191)

TYPICAL TASKS		PMP
G293	Practice electrostatic discharge (ESD) procedures	99
G304	Remove or install light bulbs	98
G278	Clean tape heads	97
G288	Perform soldering tasks	97
G314	Research technical order wiring or circuit diagrams	92
F229	Complete AF Forms 2005 (Issue/Turn-In Request)	91
G305	Remove or install magnetic tapes	91
G281	Inspect coaxial cables	89
G280	Degauss tapes	88
G283	Interconnect test equipment with LRUs	88
I358	Clean air filters	83
E187	Complete Field Maintenance Reports (FMR)	74
U972	Perform diagnostic self-tests on computers	74
I379	Remove or install printed circuit board components	73
G276	Change electrical distribution system components	71
G309	Remove or install multiconductor cables	71
U971	Perform automated diagnostic tests on computer-controlled LRUs	70
D123	Conduct OJT	69
U982	Perform operational checks on disc drives	67
R886	Visually inspect AN/USH-24 recording system LRUs	65
F227	Attach or annotate equipment status labels or tags, such as DD Forms 1574 (Serviceable Tag-Materiel)	64
G275	Brief or debrief flight crews	64
U976	Perform diagnostic tests on disc drives	64
U977	Perform diagnostic tests on peripheral computer terminal keyboards	62
R862	Perform minimum performance checks on AN/USH-24 recording system LRUs	60
R850	Isolate malfunctioning AN/USH-24 recording system LRU subassemblies or components	59
U984	Perform operational checks on peripheral computer terminal keyboards	58
U981	Perform operational checks on computer peripheral video displays	57
H325	Analyze in-flight malfunctions	55
J420	Perform preflight or postflight operational checks on AN/USH-24 recording systems	55
J435	Perform preflight or postflight operational checks on Rivet Joint systems	54
R874	Remove or install AN/USH-24 recording system LRU subassemblies or components	53
K479	Isolate malfunctioning AN/USH-24 recording system LRUs on aircraft	52
U979	Perform operational checks on computer peripheral line printers	52

VARIATIONS

Support Equipment
STG 785

OF PEOPLE IN VARIATION: 25
% OF GROUP: 20%

AVERAGE # OF TASKS: 128
MAJCOM: 100% ESC

WORK AREA: Airborne Maintenance Shop
Ground Maintenance Shop
AIRCRAFT SUPPORTED: RC-135V/W, none
UNIQUE TEST/SHOP EQUIPMENT USED: Frequency response sets
Microwave amplifier
UNIQUE SUPPORT EQUIPMENT USED: HP-8510 network analyzer
Other

TABLE XX (CONTINUED)

Support Equipment
STG 785

TYPICAL TASKS		PMP
U964	Isolate malfunctions within digital display systems	96
U965	Isolate malfunctions within digital-to-analog converters	96
U966	Isolate malfunctions within logic circuits	96
U993	Remove or install digital display system components	96
U994	Remove or install digital-to-analog converter components	96
U995	Remove or install logic circuit components	96
U996	Remove or install memory device components	96
U962	Isolate malfunctions within analog-to-digital converters	92
U967	Isolate malfunctions within memory devices	92
U969	Isolate malfunctions within shift registers	92
U977	Perform diagnostic tests on peripheral computer terminal keyboards	92
U991	Remove or install analog-to-digital converter components	92
U998	Remove or install shift register components	92
U958	Analyze memory devices	88
U963	Isolate malfunctions within buffers	88
U975	Perform diagnostic tests on computer peripheral video displays	88
U981	Perform operational checks on computer peripheral video displays	88
U999	Remove or install up-and-down counter components	88
U952	Analyze analog-to-digital converters	84
U960	Analyze shift registers	84
U961	Analyze up-and-down counters	84
U970	Isolate malfunctions within up-and-down counters	84
U954	Analyze diagnostic printouts	80
U956	Analyze digital-to-analog converters	80
U992	Remove or install buffer components	80
U953	Analyze buffers	72
U955	Analyze digital display systems	72
U968	Isolate malfunctions within ring counter assemblies	72
U989	Program programmable read only memory (PROM) programs	72
U997	Remove or install ring counter assembly components	68

Semiautomatic Systems
STG 1057

OF PEOPLE IN VARIATION: 6
% OF GROUP: 5%

AVERAGE # OF TASKS: 177
MAJCOM: 100% SAC

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: B-52G/H

UNIQUE TEST/SHOP EQUIPMENT USED:
Force gauges
Frequency response sets
Microwave amplifier
Positive intrinsic negative modulators
Pressure gauges
Radar simulators
Stroboscopes
Synchroscopes
Vacuum-tube testers
Variability delay lines
Variacs
X-Y plotters

TABLE XX (CONTINUED)

UNIQUE SUPPORT EQUIPMENT USED:

AN/ALM-16	AN/ALM-193
AN/ALM-17B	AN/ALM-194
AN/ALM-22	AN/ALM-195
AN/ALM-25	AN/ALM-244
AN/ALM-26C	AN/APM-379
AN/ALM-27C	AN/APM-380
AN/ALM-60A	AN/ASM-427
AN/ALM-99	AN/ASM-660
AN/ALM-134	AN/USM-430
AN/ALM-169	AN/USM-464
AN/ALM-171	AN/USM-603
HP-8328A	T-1093
Standard memory loader verifier	

TYPICAL TASKS		PMP
G294	Pressurize equipment	100
G295	Program electronic warfare systems	100
G313	Remove or install punch tapes	100
N663	Perform minimum performance checks on AN/ALE-20 dispensing system LRUs	83
P726	Align AN/ALQ-153 semiautomatic system LRUs	83
P729	Align AN/ALQ-172 semiautomatic system LRUs	83
P745	Isolate malfunctioning AN/ALQ-172 semiautomatic system LRUs	83
P779	Remove or install AN/ALQ-172 semiautomatic system LRUs subassemblies or components	83
P792	Visually inspect AN/ALQ-153 semiautomatic system LRUs	83
P795	Visually inspect AN/ALQ-172 semiautomatic system LRUs	83
L590	Visually inspect AN/ALR-46/46A receiving system LRUs	67
N645	Align AN/ALE-20 dispensing system LRUs	67
N656	Isolate malfunctioning AN/ALE-20 dispensing system LRU subassemblies or components	67
N678	Visually inspect AN/ALE-24 dispensing system LRUs	67
P724	Align AN/ALQ-117 semiautomatic system LRUs	67
P740	Isolate malfunctioning AN/ALQ-117 semiautomatic system LRU subassemblies or components	67
P742	Isolate malfunctioning AN/ALQ-153 semiautomatic system LRU subassemblies or components	67
P757	Perform minimum performance checks on AN/ALQ-117 semiautomatic system LRUs	67
P759	Perform minimum performance checks on AN/ALQ-153 semiautomatic system LRUs	67
P762	Perform minimum performance checks on AN/ALQ-172 semiautomatic system LRUs	67
P774	Remove or install AN/ALQ-117 semiautomatic system LRU subassemblies or components	67
P776	Remove or install AN/ALQ-153 semiautomatic system LRU subassemblies or components	67
P790	Visually inspect AN/ALQ-117 semiautomatic system LRUs	67
P794	Visually inspect AN/ALQ-155 semiautomatic system LRUs	67

AN/USH-24 Recording System
STG 482

OF PEOPLE IN VARIATION: 44
% OF GROUP: 34%
AVERAGE # OF TASKS: 103
MAJCOM: 93% ESC

WORK AREA: Airborne Maintenance Flightline
Airborne Maintenance Shop
AIRCRAFT SUPPORTED: RC-135U/V/W
UNIQUE TEST/SHOP EQUIPMENT USED: N/A
UNIQUE SUPPORT EQUIPMENT USED: Electronic signal measurement console

TYPICAL TASKS		PMP
R886	Visually inspect AN/USH-24 recording system LRUs	86
J420	Perform preflight or postflight operational checks on AN/USH-24 recording systems	77
J435	Perform preflight or postflight operational checks on Rivet Joint systems	77
R850	Isolate malfunctioning AN/USH-24 recording system LRU subassemblies or components	77
R862	Perform minimum performance checks on AN/USH-24 recording system LRUs	77

TABLE XX (CONTINUED)

TYPICAL TASKS		PMP
K505	Isolate malfunctioning Rivet Joint systems on aircraft	75
K495	Isolate malfunctioning ES-142/142A collection systems on aircraft	70
R874	Remove or install AN/USH-24 recording system LRU subassemblies or components	70
J423	Perform preflight or postflight operational checks on audio recorders	68
K479	Isolate malfunctioning AN/USH-24 recording system LRUs on aircraft	66
T929	Perform minimum performance checks on ES-142/142A collection system LRUs	66

ES-142/142A Receiving System
STG 508

SUBVARIATIONS: Supervisors (STG 1023)
Technicians (STG 966)

OF PEOPLE IN VARIATION: 25
% OF GROUP: 20%
AVERAGE # OF TASKS: 187
MAJCOM: 96% ESC

WORK AREA: Airborne Maintenance Flightline
Airborne Maintenance Shop
AIRCRAFT SUPPORTED: RC-135U/V/W
UNIQUE TEST/SHOP EQUIPMENT USED: Microwave amplifiers
Positive intrinsic negative modulators
Variable delay lines
UNIQUE SUPPORT EQUIPMENT USED: HP-8510 network analyzer
Electronic signal measurement consoles
Ground playback station recorders
Operational monitors
Signal data distribution unit

TYPICAL TASKS		PMP
J435	Perform preflight or postflight operational checks on Rivet Joint systems	96
K504	Isolate malfunctioning radio frequency (RF) distribution systems on aircraft	92
L580	Remove or install ES-142/142A receiving system LRUs	92
L598	Visually inspect ES-142/142A receiving system LRUs	92
T920	Isolate malfunctioning electronic reconnaissance RF distribution system LRU subassemblies or components	92
T943	Visually inspect electronic reconnaissance RF distribution system LRUs	92
K485	Isolate malfunctioning data link systems on aircraft	88
K502	Isolate malfunctioning in-flight maintenance stations on aircraft	88
T927	Perform minimum performance checks on electronic reconnaissance RF distribution system LRUs	88
J421	Perform preflight or postflight operational checks on antennas	84
L530	Align ES-142/142A receiving system LRUs	84
L563	Perform minimum performance checks on ES-142/142A receiving system LRUs	84
T929	Perform minimum performance checks on ES-142/142A collection system LRUs	84
H339	Reconfigure aircraft, other than for mobility	80
Q814	Isolate malfunctioning ES-182 direction finding system LRUs	72
Q832	Visually inspect ES-182 direction finding system LRUs	72
B65	Supervise Airborne Electronic Warfare Systems Personnel (AFSC A456X1)	68
Q820	Perform minimum performance checks on ES-182 direction finding system LRUs	68
Q826	Remove or install ES-182 direction finding system LRUs	68

TABLE XX (CONTINUED)

Comfy Levi
STG 559

OF PEOPLE IN VARIATION: 12
% OF GROUP: 9%
AVERAGE # OF TASKS: 154
MAJCOM: 83% ESC

WORK AREA: Airborne Maintenance Shop
AIRCRAFT SUPPORTED: EC-130E/H, C-130E/H
UNIQUE TEST/SHOP EQUIPMENT USED: Vacuum-tube testers
UNIQUE SUPPORT EQUIPMENT USED: AN/AYM-3
G-260 equipment cabinets
K-80 tape degausers
Antenna systems
Tuner test sets
Other

TYPICAL TASKS		PMP
H325	Analyze in-flight malfunctions	100
W1025	Apply power to aircraft	100
I364	Fabricate test bench mockups	92
W1033	Operate aerospace ground equipment (AGE), such as power units, heaters, light carts, or lifts	92
J436	Perform preflight or postflight operational checks on Senior Scout collection system	75
K506	Isolate malfunctioning Senior Scout collection system on aircraft	75
H328	Modify electronic warfare equipment on aircraft	67
J437	Perform preflight or postflight operational checks on SSRS-625B airborne receiving systems (Comfy Levi)	67
K508	Isolate malfunctioning SSRS-625B airborne receiving systems (Comfy Levi) on aircraft	67
T916	Align SSRS-625B airborne receiving system (Comfy Levi) LRUs	67
T939	Remove or install SSRS-625B airborne receiving system (Comfy Levi) LRUs subassemblies or components	67
V1003	Assemble or disassemble mockups or test stations for mission deployments	67
V1013	Participate in predeployment mobility briefings, other than conducting	67

Shift Supervisors
STG 513

OF PEOPLE IN VARIATION: 9
% OF GROUP: 7%
AVERAGE # OF TASKS: 118
MAJCOM: 78% ESC, 22% SAC
WORK AREA: Airborne Maintenance Shop
Electronic Warfare Shop
AIRCRAFT SUPPORTED: RC-135U/V/W
UNIQUE TEST/SHOP EQUIPMENT USED: Antenna position fixtures
Force gauges
Radar simulators
UNIQUE SUPPORT EQUIPMENT USED: ATE-100 Tape evaluators
G-260 equipment cabinets
K-80 tape degausers
Antenna systems
Data analysis consoles
Universal bench test kits
VTE-200 tape evaluators

TYPICAL TASKS		PMP
B42	Counsel subordinates on personal or military matters	100
F248	Inventory equipment, tools, or supplies, other than aircraft equipment or consolidated tool kits (CTK)	100
I382	Remove or install shop replaceable units	100
B41	Counsel subordinates on job progression or career development	89
B64	Orient newly assigned personnel	89

TABLE XX (CONTINUED)

TYPICAL TASKS		PMP
D152	Maintain training records, charts, or graphs	78
A17	Establish performance standards for subordinates	67
B62	Interpret policies, directives, or procedures for subordinates	67
B66	Supervise Apprentice Electronic Warfare Systems Specialists (AFSC 45631A)	67
C105	Inspect personnel for compliance with military standards	67
C112	Review maintenance data collection forms	67

TABLE XXI

SUPPORT EQUIPMENT MAINTENANCE
(STG 635)

VARIATIONS: N/A

OF PEOPLE IN GROUP: 11
% OF TOTAL SAMPLE: 0.5%

% ASSIGNED CONUS: 45%
MAJCOM: 100% ESC

AVERAGE TAFMS: 72 months
AVERAGE TICF: 68 months
AVERAGE PAYGRADE: E-4

AVERAGE # OF TASKS: 56
AVERAGE # PERSONS SUPERVISE: 0

WORK AREA: Ground Maintenance Shop
Other
ORGANIZATIONAL LEVEL: Squadron

AIRCRAFT SUPPORTED: 73% None
UNIQUE TEST/SHOP EQUIPMENT USED: Pressure gauges
Time domain reflectometers
Universal counters
UNIQUE SUPPORT EQUIPMENT USED: Data analysis consoles
Digital subsystem test sets
Ground playback station recorders
Operational monitors
Program read only memory burners
Process test station
Recorder control unit

TOP DUTIES

35% U MAINTAINING ELECTRONIC WARFARE SUPPORT EQUIPMENT
28% G PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE
12% I PERFORMING ELECTRONIC WARFARE GENERAL SHOP MAINTENANCE
7% F PERFORMING SUPPLY AND EQUIPMENT FUNCTIONS

TYPICAL TASKS		PMP
G293	Practice electrostatic discharge (ESD) procedures	100
I358	Clean air filters	100
U979	Perform operational checks on computer peripheral line printers	100
U982	Perform operational checks on disc drives	100
U1000	Store diagnostic tapes or discs	100
G277	Change fuses or circuit breakers	91
G305	Remove or install magnetic tapes	91
I376	Remove or install air filters	91
U972	Perform diagnostic self-tests on computers	91
U974	Perform diagnostic tests on computer peripheral magnetic tape recorders	91
U976	Perform diagnostic tests on disc drives	91
U980	Perform operational checks on computer peripheral magnetic tape recorders	91
U981	Perform operational checks on computer peripheral video displays	91
U984	Perform operational checks on peripheral computer terminal keyboards	91
U973	Perform diagnostic tests on computer peripheral line printers	82
U975	Perform diagnostic tests on computer peripheral video displays	82
U977	Perform diagnostic tests on peripheral computer terminal keyboards	82
U971	Perform automated diagnostic tests on computer controlled LRUs	64

TABLE XXII

TGIF MAINTENANCE *
(STG 243)

VARIATIONS: N/A

OF PEOPLE IN GROUP: 7
% OF TOTAL SAMPLE: 0.3%

% ASSIGNED CONUS: 0%
MAJCOM: 100% ESC (OSAN AB)

AVERAGE TAFMS: 91 months
AVERAGE TICF: 87 months
AVERAGE PAYGRADE: E-5

AVERAGE # OF TASKS: 11
AVERAGE # PERSONS SUPERVISE: 1

WORK AREA: Ground Maintenance Shop Operations
ORGANIZATIONAL LEVEL: Group

AIRCRAFT SUPPORTED: 43% None
UNIQUE TEST/SHOP EQUIPMENT USED: N/A
UNIQUE SUPPORT EQUIPMENT USED: Other

TOP DUTIES

57%	G	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE
18%	I	PERFORMING ELECTRONIC WARFARE GENERAL SHOP MAINTENANCE
9%	F	PERFORMING SUPPLY AND EQUIPMENT FUNCTIONS
5%	U	MAINTAINING ELECTRONIC WARFARE SUPPORT EQUIPMENT

TYPICAL TASKS		PMP
G305	Remove or install magnetic tapes	100
G304	Remove or install light bulbs	86
G278	Clean tape heads	71
I376	Remove or install air filters	71
G317	Secure classified property	71
F229	Complete AF Forms 2005 (Issue/Turn-In Request)	57
I356	Adjust tape recorder brakes	57
I386	Store magnetic tapes or discs	57
E221	Operate general office equipment, such as typewriters or small computers	43
G288	Perform soldering tasks	29
G293	Practice electrostatic discharge (ESD) procedures	29
G314	Research technical order wiring or circuit diagrams	14
U983	Perform operational checks on electronic warfare automated systems	14

* TGIF-Tactical Ground Intercept Facility

This IJT is associated with Classified Systems

TABLE XXIII

ESC JOB CONTROL
(STG 276)

VARIATIONS: N/A

OF PEOPLE IN GROUP: 7
% OF TOTAL SAMPLE: 0.3%

% ASSIGNED CONUS: 14%
MAJCOM: 71% ESC

AVERAGE TAFMS: 120 months
AVERAGE TICF: 97 months
AVERAGE PAYGRADE: E-5

AVERAGE # OF TASKS: 45
AVERAGE # PERSONS SUPERVISE: 2

WORK AREA: Job Control
ORGANIZATIONAL LEVEL: Squadron, Wing

AIRCRAFT SUPPORTED: 57% TR-1, 29% None
UNIQUE TEST/SHOP EQUIPMENT USED: Standing wave ratio meters
UNIQUE SUPPORT EQUIPMENT USED: Other

TOP DUTIES

26% B DIRECTING AND IMPLEMENTING
26% A ORGANIZING AND PLANNING
20% E PERFORMING ADMINISTRATIVE FUNCTIONS
13% C EVALUATING AND INSPECTING

TYPICAL TASKS		PMP
B37	Adjust daily maintenance plans to meet operational commitments	100
A3	Coordinate flightline or shop maintenance activities with maintenance offices	100
A4	Coordinate work activities with other sections or agencies	100
A7	Determine work priorities	86
B42	Counsel subordinates on personal or military matters	86
C94	Evaluate personnel for compliance with performance standards	86
A21	Participate in meetings, such as staff meetings, briefings, conferences, or workshops	71
B38	Compile information for reports or staff studies	71
B45	Direct development or maintenance of status boards, graphs, or charts	71
E221	Operate general office equipment, such as typewriters or small computers	71
D126	Counsel trainees on training progress	71
A33	Review flight schedules	71
A25	Plan or prepare briefings	57
A35	Schedule work assignments and priorities	57
B39	Conduct briefings	57
D123	Conduct OJT	71
E215	Maintain maintenance management information and control system (MMICS) workcenter listings	71
E211	Maintain equipment or aircraft status reports	57

TABLE XIV

TRAINING
(STG 100)

VARIATIONS: Technical School (STG 216)
FTD (STG 293)
Supervisors (STG 602)

OF PEOPLE IN GROUP: 78
% OF TOTAL SAMPLE: 4%

% ASSIGNED CONUS: 87%
MAJCOM: 97% ATC

AVERAGE TAFMS: 132 months
AVERAGE TICF: 124 months
AVERAGE PAYGRADE: E-5/6

AVERAGE # OF TASKS: 66
AVERAGE # PERSONS SUPERVISE: 2

WORK AREA: Training
ORGANIZATIONAL LEVEL: Detachment
Group

AIRCRAFT SUPPORTED: 51% None
UNIQUE TEST/SHOP EQUIPMENT USED: N/A
UNIQUE SUPPORT EQUIPMENT USED: N/A

TOP DUTIES

40%	D	TRAINING
11%	E	PERFORMING ADMINISTRATIVE FUNCTIONS
10%	G	PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE
6%	A	ORGANIZING AND PLANNING
6%	C	EVALUATING AND INSPECTING

TYPICAL TASKS		PMP
D118	Administer tests	95
D117	Administer student critiques	94
D161	Prepare lesson plans	92
D164	Score tests	92
D124	Conduct resident course classroom training	81
D126	Counsel trainees on training progress	81
D153	Operate audiovisual equipment	77
D166	Write test questions	76
D125	Conduct safety or security training	75
D130	Develop course curricula, plans of instruction (POI), or specialty training standards (STS)	72
E219	Maintain security forms on safes, records, or rooms	71
D132	Develop performance tests	63
A21	Participate in meetings, such as staff meetings, briefings, conferences, or workshops	59
D136	Develop training aids	54
G317	Secure classified property	53
C105	Inspect personnel for compliance with military standards	51
D152	Maintain training records, charts, or graphs	51
D159	Prepare instruction training areas or facilities	51
G314	Research technical order wiring or circuit diagrams	50
D143	Evaluate student questionnaires or critiques	47
E223	Report technical order deficiencies	45
C94	Evaluate personnel for compliance with performance standards	42
F248	Inventory equipment, tools, or supplies, other than aircraft equipment or consolidated tool kits (CTK)	42
D122	Complete AF Forms 1256 (Certificate of Training)	40
D131	Develop new equipment training programs	31

TABLE XXIV

VARIATIONS

Technical School
STG 216

OF PEOPLE IN VARIATION: 31
% OF GROUP: 40%
AVERAGE # OF TASKS: 33
MAJCOM: 100% ATC

WORK AREA: Training
AIRCRAFT SUPPORTED: None
UNIQUE TEST/SHOP EQUIPMENT USED: N/A
UNIQUE SUPPORT EQUIPMENT USED: Other

TYPICAL TASKS		PMP
D118	Administer tests	100
D164	Score tests	100
D117	Administer student critiques	97
D161	Prepare lesson plans	90
D124	Conduct resident course classroom training	87
D126	Counsel trainees on training progress	81
D166	Write test questions	81
D153	Operate audiovisual equipment	71
D125	Conduct safety or security training	68
D132	Develop performance tests	68

Field Training Detachment
STG 293

OF PEOPLE IN VARIATION: 20
% OF GROUP: 26%
AVERAGE # OF TASKS: 116
MAJCOM: 100% ATC

WORK AREA: Training
Electronic Warfare Shop
AIRCRAFT SUPPORTED: B-52G, F-4G, None
UNIQUE TEST/SHOP EQUIPMENT USED: Interface test sets
Microwave amplifiers
Pressure gauges
Signal sources
Standing wave ratio meters
Vacuum tube testers
Variacs
Wattmeters

UNIQUE SUPPORT EQUIPMENT USED:

AN/ALM-16	AN/ALM-193
AN/ALM-17B	AN/ALM-194
AN/ALM-22	AN/ALM-195
AN/ALM-25	AN/APM-379
AN/ALM-26C	AN/ASM-660
AN/ALM-27C	AN/USM-430
AN/ALM-60A	HP-8328A
AN/ALM-99	T-1022

Computer diagnostic test equipment
Program read only memory
Standard memory load verifier

TYPICAL TASKS		PMP
E219	Maintain security forms on safes, records, or rooms	100
G281	Inspect coaxial cables	95
G283	Interconnect test equipment with LRUs	95
E213	Maintain files of classified material or messages	90
G304	Remove or install light bulbs	90
G317	Secure classified property	90
G282	Inspect waveguide assemblies	75

TABLE XXIV (CONTINUED)

Supervision
STG 602

OF PEOPLE IN VARIATION: 5
% OF GROUP: 6%

AVERAGE # OF TASKS: 80
MAJCOM: 100% ATC

WORK AREA: Training
AIRCRAFT SUPPORTED: F-4G, None
UNIQUE TEST/SHOP EQUIPMENT USED: N/A
UNIQUE SUPPORT EQUIPMENT USED: Electronic signal measurement consoles
Other

TYPICAL TASKS		PMP
A4	Coordinate work activities with other sections or agencies	100
A7	Determine work priorities	100
A17	Establish performance standards for subordinates	100
A20	Establish work schedules	100
A27	Plan work assignments	100
A35	Schedule work assignments and priorities	100
B70	Supervise Electronic Warfare Systems Technicians (AFSC 45671)	100
C114	Write EPRs	100
C115	Write recommendations for awards or decorations	100
A1	Assign personnel to duty positions	80
A5	Determine personnel requirements	80
A6	Determine requirement for space, equipment, or supplies	80
B69	Supervise Electronic Warfare Systems Specialist (AFSC 45651)	80
D127	Counsel trainers or instructors	80
D129	Determine resident course training requirements	80
D140	Evaluate instructor performance	80
D157	Plan or schedule instructor training programs	80

TABLE XXV

COURSEWARE DEVELOPMENT
(STG 535)

VARIATIONS: N/A

OF PEOPLE IN GROUP: 8
% OF TOTAL SAMPLE: 0.3%

% ASSIGNED CONUS: 100%
MAJCOM: 100% ATC

AVERAGE TAFMS: 113 months
AVERAGE TICF: 107 months
AVERAGE PAYGRADE: E-5

AVERAGE # OF TASKS: 8
AVERAGE # PERSONS SUPERVISE: 0

WORK AREA: Other
Training
ORGANIZATIONAL LEVEL: Group

AIRCRAFT SUPPORTED: 100% None
UNIQUE TEST/SHOP EQUIPMENT USED: None
UNIQUE SUPPORT EQUIPMENT USED: Other

TOP DUTIES

62% D TRAINING
21% E PERFORMING ADMINISTRATIVE FUNCTIONS
15% A ORGANIZING AND PLANNING

TYPICAL TASKS		PMP
D130	Develop course curricula, plans of instruction (POI), or specialty training standards (STS)	100
E221	Operate general office equipment, such as typewriters or small computers	88
D166	Write test questions	88
D132	Develop performance tests	75
A21	Participate in meetings, such as staff meetings, briefings, conferences, or workshops	63
D134	Develop resident course or career development course (CDC) curriculum materials	63
E219	Maintain security forms on safes, records, or rooms	50
D136	Develop training aids	50
D161	Prepare lesson plans	50
A12	Develop work methods or procedures	38

TABLE XXVI

SUPPLY
(STG 78)

VARIATIONS: Technicians (STG 211)
Administration (STG 167)
Repair Monitor (STG 392)
Training (STG 270)
Supervisors (STG 254)

OF PEOPLE IN GROUP: 65
% OF TOTAL SAMPLE: 3%

% ASSIGNED CONUS: 68%
MAJCOM: 28% SAC, 17% TAC, 15% ESC

AVERAGE TAFMS: 121 months
AVERAGE TICF: 100 months
AVERAGE PAYGRADE: E-5

AVERAGE # OF TASKS: 51
AVERAGE # PERSONS SUPERVISE: 2

WORK AREA: Electronic Warfare Shop
Other
ORGANIZATIONAL LEVEL: Squadron

AIRCRAFT SUPPORTED: 23% None
UNIQUE TEST/SHOP EQUIPMENT USED: N/A
UNIQUE SUPPORT EQUIPMENT USED: N/A

TOP DUTIES

49% F PERFORMING SUPPLY AND EQUIPMENT FUNCTIONS
12% E PERFORMING ADMINISTRATIVE FUNCTIONS
9% A ORGANIZING AND PLANNING

TYPICAL TASKS		PMP
F229	Complete AF Forms 2005 (Issue/Turn-In Request)	88
F246	Initiate AF Forms 1297 (Temporary Issue Receipt)	83
F236	Coordinate with base supply on obtaining parts	77
F265	Research microfiche files for supply requisition data	74
F269	Review monthly due out validation forms	71
F248	Inventory equipment, tools, or supplies, other than aircraft equipment or consolidated tool kits (CTK)	66
F250	Log turn-in of supplies and equipment	63
F271	Review supply daily document registers	62
F227	Attach or annotate equipment status labels or tags, such as DD Forms 1574 (Sarviceable Tag-Materiel)	60
F262	Prepare letters of justification for supply related-matters	60
F249	Issue supplies and equipment	57
E221	Operate general office equipment, such as typewriters or small computers	54
F226	Annotate AF Forms 2413 (Supply Control Log)	54
F235	Complete DD Forms 1348-6 (DOD Single Line Item Requisition System Document)	54
F270	Review priority monitor reports	52
F228	Certify status of repairable, serviceable, or condemned parts	51
F258	Maintain property custody authorization/custody receipt listings (CA/CRL)	48
F245	Review AF Forms 126 (Custodian Request Log)	45
F232	Complete AF Forms 601 (Equipment Action Request)	43
F244	Evaluate supply problems	43
F252	Maintain consolidated tool kits	43
F239	Establish procedures for accountability of supplies and equipment	40
F254	Maintain due-in-from-maintenance (DIFM) lists	40
F260	Prepare documentation to turn in surplus property	38
G317	Secure classified property	38
F273	Schedule support equipment for calibration	29

TABLE XXVI (CONTINUED)

VARIATIONS

Technician
STG 211

OF PEOPLE IN VARIATION: 5
% OF GROUP: 8%

AVERAGE # OF TASKS: 19
MAJCOM: 80% SAC

WORK AREA: Other
AIRCRAFT SUPPORTED: B-52G/H, F-4G, RC-135U/V/W
UNIQUE TEST/SHOP EQUIPMENT USED: Boresight equipment
Power supplies
Radar simulators
Standing wave ratio meters
Sweep oscillators

UNIQUE SUPPORT EQUIPMENT USED: N/A

TYPICAL TASKS		PMP
F248	Inventory equipment, tools, or supplies, other than aircraft equipment or consolidated tool kits (CTK)	80
F252	Maintain consolidated tool kits	80
F255	Maintain inspection cards	80

Administration
STG 167

OF PEOPLE IN VARIATION: 9
% OF GROUP: 14%

AVERAGE # OF TASKS: 44
MAJCOM: 56% MAC, 22% SAC

WORK AREA: Electronic Warfare Shop
Test Equipment Shop
AIRCRAFT SUPPORTED: AC-130A/H, B-52G/H, MC-130E, Other
UNIQUE TEST/SHOP EQUIPMENT USED: Radar simulators
Signal source
UNIQUE SUPPORT EQUIPMENT USED:

AN/ALM-126C	AN/APM-427
AN/ALM-174	AN/ASM-660
AN/ALM-177B	AN/USM-464
AN/ALM-196	T-1022

TYPICAL TASKS		PMP
E175	Annotate AFTO Forms 244 and 245 (Industrial/Support Equipment Record)	89
E219	Maintain security forms on safes, records, or rooms	78
E221	Operate general office equipment, such as typewriters or small computers	78
W1028	Inventory consolidated tool kits (CTK)	78
E213	Maintain files of classified material or messages	67
G289	Perform support equipment inspections	67
G304	Remove or install light bulbs	67
G317	Secure classified property	67
E216	Maintain precision measurement equipment calibration schedules	56

Repair Monitor
STG 392

OF PEOPLE IN VARIATION: 8
% OF GROUP: 12%

AVERAGE # OF TASKS: 51
MAJCOM: 50% SAC

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: B-52G, None

TABLE XXVI (CONTINUED)

UNIQUE TEST/SHOP EQUIPMENT USED: Calculators
Crystal diode detectors
Directional couplers
Memory devices
Positive intrinsic negative modulators
Power supplies
Signal source
Vacuum-tube tester
Variacs
Wattmeters
UNIQUE SUPPORT EQUIPMENT USED: Other

TYPICAL TASKS		PMP
F226	Annotate AF Forms 2413 (Supply Control Log)	100
F268	Review daily repair cycle asset management list	100
F269	Review monthly due out validation forms	100
F228	Certify status of repairable, serviceable, or condemned parts	88
F254	Maintain due-in-from-maintenance (DIFM) lists	88
F262	Prepare letters of justification for supply related matters	88
F271	Review supply daily document registers	88
F260	Prepare documentation to turn in surplus property	75

Training
STG 270

OF PEOPLE IN VARIATION: 7
% OF GROUP: 11%
AVERAGE # OF TASKS: 34
MAJCOM: 71% ATC

WORK AREA: Training
Other
AIRCRAFT SUPPORTED: None
UNIQUE TEST/SHOP EQUIPMENT USED: Blower assemblies
Directional couplers
Sweep oscillators
Vacuum-tube testers
UNIQUE SUPPORT EQUIPMENT USED: AN/PSM-27
Other

TYPICAL TASKS		PMP
F232	Complete AF Forms 601 (Equipment Action Request)	100
F266	Review AF Forms 126 (Custodian Request Log)	100
D118	Administer tests	71
D132	Develop performance tests	71
D164	Score tests	71
D166	Write test questions	71

Supervisors
STG 254

OF PEOPLE IN VARIATION: 18
% OF GROUP: 28%
AVERAGE # OF TASKS: 67
MAJCOM: 33% TAC, 17% ATC/ESC

WORK AREA: Electronic Warfare Shop
Other
AIRCRAFT SUPPORTED: F-4G, None
UNIQUE TEST/SHOP EQUIPMENT USED: Memory devices
UNIQUE SUPPORT EQUIPMENT USED: AN/ALM-177B
Other

TABLE XXVI (CONTINUED)

TYPICAL TASKS		PMP
A21	Participate in meetings, such as staff meetings, briefings, conferences, or workshops	89
F270	Review priority monitor reports	78
F244	Evaluate supply problems	72
A6	Determine requirement for space, equipment, or supplies	67
A7	Determine work priorities	67
A32	Review drafts of regulations, manuals, or other directives	67
B41	Counsel subordinates on job progression or career development	67
B42	Counsel subordinates on personal or military matters	67

TABLE XXVII

TECHNICAL ORDER MANAGEMENT
(STG 163)

VARIATIONS: N/A

OF PEOPLE IN GROUP: 5
% OF TOTAL SAMPLE: 0.2%

% ASSIGNED CONUS: 60%
MAJCOM: 40% AFSC, 40% SAC

AVERAGE TAFMS: 134 months
AVERAGE TICF: 103 months
AVERAGE PAYGRADE: E-5

AVERAGE # OF TASKS: 14
AVERAGE # PERSONS SUPERVISE: 0

WORK AREA: Other
ORGANIZATIONAL LEVEL: Squadron

AIRCRAFT SUPPORTED: 40% None
UNIQUE TEST/SHOP EQUIPMENT USED: None
UNIQUE SUPPORT EQUIPMENT USED: Other

TOP DUTIES

41% A ORGANIZING AND PLANNING
25% E PERFORMING ADMINISTRATIVE FUNCTIONS
22% C EVALUATING AND INSPECTING

TYPICAL TASKS		PMP
A19	Establish requirements for publications or technical orders	80
A32	Review drafts of regulations, manuals, or other directives	80
C100	Evaluate technical order improvement reports	80
E223	Report technical order deficiencies	80
A4	Coordinate work activities with other sections or agencies	60
A15	Establish inspection procedures	60
A18	Establish publication files	60
B50	Direct maintenance of publication or technical order files	60
C81	Evaluate equipment modification or development data	60
E218	Maintain publication libraries	60
E207	Initiate or complete technical order library forms, such as AFTO Forms 32, 110, 110A, 110B, 131, and 187	60

TABLE XXVIII

QUALITY CONTROL
(STG 102)

VARIATIONS: Quality Assurance-TAC (STG 430)
Quality Assurance-SAC (STG 587)
Quality Control-ESC (STG 246)
Deficiency Evaluation (STG 261)

OF PEOPLE IN GROUP: 39
% OF TOTAL SAMPLE: 2%

% ASSIGNED CONUS: 59%
MAJCOM: 41% ESC, 36% SAC

AVERAGE TAFMS: 131 months
AVERAGE TICF: 115 months
AVERAGE PAYGRADE: E-5

AVERAGE # OF TASKS: 58
PERSONS SUPERVISE: 1

WORK AREA: Quality Control
Quality Assurance
ORGANIZATIONAL LEVEL: Squadron, Wing

AIRCRAFT SUPPORTED: 23% B-52G, 21% RC-135V, 21% None
UNIQUE TEST/SHOP EQUIPMENT USED: None
UNIQUE SUPPORT EQUIPMENT USED: Other

TOP DUTIES

33% C EVALUATING AND INSPECTING
16% E PERFORMING ADMINISTRATIVE FUNCTIONS
9% A ORGANIZING AND PLANNING
8% B DIRECTING AND IMPLEMENTING

TYPICAL TASKS		PMP
C108	Perform personnel performance quality control inspections	87
C78	Evaluate completed maintenance	85
C94	Evaluate personnel for compliance with performance standards	82
C97	Evaluate quality control procedures	77
C107	Perform electronic warfare equipment quality control inspections	77
E177	Annotate or complete AF Forms 2419 (Routing and Review of Quality Control Reports)	77
U1000	Store diagnostic tapes or discs	77
A15	Establish inspection procedures	74
A21	Participate in meetings, such as staff meetings, briefings, conferences, or workshops	74
C79	Evaluate deficiency reports, such as materiel, quality, or warranty	72
E223	Report technical order deficiencies	69
C85	Evaluate job hazards or compliance with Air Force Occupational Safety and Health (AFOSH) program standards	67
C109	Perform safety inspections of equipment or facilities	67
E221	Operate general office equipment, such as typewriters or small computers	64
B58	Implement quality control programs	59
C106	Investigate accidents or incidents	59
C98	Evaluate safety or security programs	51

VARIATIONS

Quality Assurance-TAC
STG 430

OF PEOPLE IN VARIATION: 5
% OF GROUP: 13%

AVERAGE # OF TASKS: 60
MAJCOM: 40% USAFE, 40% MAC

WORK AREA: Quality Assurance
AIRCRAFT SUPPORTED: MC-130E, Other

TABLE XXVIII (CONTINUED)

UNIQUE TEST/SHOP EQUIPMENT USED:
Attenuators
Breakout boxes
Calculators
Directional couplers
Dummy loads
Frequency counters
Multimeters
Oscilloscopes
Power meters
Power supplies
Punch tape reader
Soldering stations
Time domain reflectometers
Universal counters

UNIQUE SUPPORT EQUIPMENT USED:

AN/ALM-177B	AN/APM-427	
AN/ALM-191	Other	

TYPICAL TASKS		PMP
C7ᴗ	Evaluate aircraft inspection workcards	100
C97	Evaluate quality control procedures	100
I369	Inspect test bench mockups	100
C78	Evaluate completed maintenance	80
C107	Perform electronic warfare equipment quality control inspections	80
C76	Evaluate aircraft inspection workcards	78
N681	Visually inspect AN/ALE-40 dispensing system LRUs	67
L591	Visually inspect AN/ALR-69 receiving system LRUs	44

Quality Assurance-SAC
STG 587

OF PEOPLE IN VARIATION: 10
% OF GROUP: 26%
AVERAGE # OF TASKS: 89
MAJCOM: 100% SAC

WORK AREA: Electronic Warfare Shop
Quality Assurance
AIRCRAFT SUPPORTED: B-52H
UNIQUE TEST/SHOP EQUIPMENT USED:
Attenuators
Breakout boxes
Calculators
Crystal diode detectors
Directional couplers
Dummy loads
Frequency counters
Force gauges
Interface test sets
Memory devices
Modulators
Multimeters
Oscilloscopes
Positive intrinsic negative modulators
Power meters
Power supplies
Pressure gauges
Printers
Pulse generators
Punch tape reader
Radar simulators
Soldering stations
Spectrum analyzers
Standing wave ratio meters
Stroboscopes
Time domain reflectometers
Universal counters
Vacuum-tube testers
Variacs
Wattmeters

UNIQUE SUPPORT EQUIPMENT USED:

AN/ALM-16	AN/ALM-60A	AN/ALM-194
AN/ALM-17B	AN/ALM-99	AN/ALM-195
AN/ALM-22	AN/ALM-115	AN/ALM-244
AN/ALM-23	AN/ALM-134	AN/APM-379
AN/ALM-25	AN/ALM-169	AN/APM-380
AN/ALM-26C	AN/ALM-171	AN/APM-427
AN/ALM-27C	AN/ALM-174	AN/USM-464
T-1022	T-1093	HP-8328A

Program read-only memory burners

TABLE XXVIII (CONTINUED)

TYPICAL TASKS		PMP
G291	Perform visual inspection of antennas	100
G281	Inspect coaxial cables	100
C78	Evaluate completed maintenance	100
E177	Annotate or complete AF Forms 2419 (Routing and Review of Quality Control Reports)	100
L588	Visually inspect AN/ALR-20A receiving system LRUs	100
M637	Visually inspect AN/ALT-16/16A transmitting system LRUs	100
M639	Visually inspect AN/ALT-32 transmitting system LRUs	100
N677	Visually inspect AN/ALE-20 dispensing system LRUs	100
N678	Visually inspect AN/ALE-24 dispensing system LRUs	100
P791	Visually inspect AN/ALQ-122 semiautomatic system LRUs	100
P792	Visually inspect AN/ALQ-153 semiautomatic system LRUs	100
P794	Visually inspect AN/ALQ-155 semiautomatic system LRUs	100
C97	Evaluate quality control procedures	90
C107	Perform electronic warfare equipment quality control inspections	90
C108	Perform personnel performance quality control inspections	90
L590	Visually inspect AN/ALR-46/46A receiving system LRUs	90
P795	Visually inspect AN/ALQ-172 semiautomatic system LRUs	90
B58	Implement quality control programs	80
C100	Evaluate technical order improvement reports	80
C83	Evaluate inspection reports or procedures	70
P790	Visually inspect AN/ALQ-117 semiautomatic system LRUs	70

Quality Control-ESC
STG 246

OF PEOPLE IN VARIATION: 11
% OF GROUP: 28%
AVERAGE # OF TASKS: 60
MAJCOM: 100% ESC

WORK AREA: Quality Control
AIRCRAFT SUPPORTED: None
UNIQUE TEST/SHOP EQUIPMENT USED: None
UNIQUE SUPPORT EQUIPMENT USED: Other

TYPICAL TASKS		PMP
C94	Evaluate personnel for compliance with performance standards	91
A21	Participate in meetings, such as staff meetings, briefings, conferences, or workshops	91
E176	Annotate or complete AF Forms 2415 (Quality Control Checksheet)	91
E189	Complete quality deficiency reports (QDRs)	91
C108	Perform personnel performance quality control inspections	82
E210	Maintain deficiency reports, such as materiel, quality, or warranty	82
E221	Operate general office equipment, such as typewriters or small computers	82
A16	Establish organizational policies, such as operating instructions (OI) and standard operating procedures (SOP)	73
A19	Establish requirements for publications or technical orders	73
B51	Direct maintenance standardization and evaluation programs (MSEP)	73
E207	Initiate or complete technical order library forms, such as AFTO Forms 32, 110, 110A, 110B, 131, and 187	73
E215	Maintain maintenance management information and control system (MMICS) workcenter listings	73
F246	Initiate AF Forms 1297 (Temporary Issue Receipt)	73

TABLE XXVIII (CONTINUED)

Deficiency Evaluation
STG 261

OF PEOPLE IN VARIATION: 6
% OF GROUP: 15%

AVERAGE # OF TASKS: 30
MAJCOM: 33% ESC

WORK AREA: Quality Assurance
Quality Control
AIRCRAFT SUPPORTED: EC-130H, RC-135U/V/W
UNIQUE TEST/SHOP EQUIPMENT USED: None
UNIQUE SUPPORT EQUIPMENT USED: Other

TYPICAL TASKS		PMP
C79	Evaluate deficiency reports, such as materiel, quality, or warranty	100
C80	Evaluate engineering change proposals	83
C81	Evaluate equipment modification or development data	83
C109	Perform safety inspections of equipment or facilities	83
C99	Evaluate suggestions	67
E204	Initiate or complete aircraft maintenance forms, such as AFTO Forms 781 series	67

TABLE XXIX

SUPERVISION
(STG 137)

VARIATIONS: Shop Supervisors (STG 292)
Flightline Supervisors-TAC (STG 346)
Flightline Supervisors-SAC (STG 320)
Airborne Supervisors (STG 190)
Airborne QC (STG 704)
Shift Supervisors (STG 314)
Supply & Equipment Management (STG 297)
Resources Management (STG 468)
Training Management (STG 405)
Supervisors Management (STG 282)

OF PEOPLE IN GROUP: 274
% OF TOTAL SAMPLE: 13%

AVERAGE TAFMS: 166 months
AVERAGE TICF: 133 months
AVERAGE PAYGRADE: E-6

% ASSIGNED CONUS: 54%
MAJCOM: 27% TAC, 22% ESC, 18% SAC
AVERAGE # OF TASKS: 130
AVERAGE # PERSON SUPERVISE: 8

WORK AREA: Electronic Warfare Shop
ORGANIZATIONAL LEVEL: Squadron

AIRCRAFT SUPPORTED: N/A
UNIQUE TEST/SHOP EQUIPMENT USED: N/A
UNIQUE SUPPORT EQUIPMENT USED: N/A

TOP DUTIES

16% A ORGANIZING AND PLANNING
16% C EVALUATING AND INSPECTING
14% B DIRECTING AND IMPLEMENTING
12% F PERFORMING SUPPLY AND EQUIPMENT FUNCTIONS
9% E PERFORMING ADMINISTRATIVE FUNCTIONS
9% G PERFORMING ELECTRONIC WARFARE GENERAL FLIGHTLINE OR SHOP MAINTENANCE

TYPICAL TASKS		PMP
D142	Evaluate training methods or techniques	100
B42	Counsel subordinates on personal or military matters	95
A7	Determine work priorities	91
B41	Counsel subordinates on job progression or career development	91
C114	Write EPRs	89
A35	Schedule work assignments and priorities	82
A4	Coordinate work activities with other sections or agencies	80
C115	Write recommendations for awards or decorations	80
C94	Evaluate personnel for compliance with performance standards	79
A17	Establish performance standards for subordinates	78
A27	Plan work assignments	78
B64	Orient newly assigned personnel	78
A3	Coordinate flightline or shop maintenance activities with maintenance offices	77
A21	Participate in meetings, such as staff meetings, briefings, conferences, or workshops	77
B62	Interpret policies, directives, or procedures for subordinates	77
C105	Inspect personnel for compliance with military standards	74
B69	Supervise Electronic Warfare Systems Specialist (AFSC 45651)	73
A20	Establish work schedules	72
E221	Operate general office equipment, such as typewriters or small computers	72
C78	Evaluate completed maintenance	69
D126	Counsel trainees on training progress	68
A6	Determine requirement for space, equipment, or supplies	67
A34	Schedule leaves or TDYs	66
B70	Supervise Electronic Warfare Systems Technicians (AFSC 45671)	66

TABLE XXIX (CONTINUED)

TYPICAL TASKS		PMP
C112	Review maintenance data collection forms	66
A1	Assign personnel to duty positions	65
B52	Direct shop maintenance	65
C72	Analyze workload requirements	64
C85	Evaluate job hazards or compliance with Air Force Occupational Safety and Health (AFOSH) program standards	64
F229	Complete AF Forms 2005 (Issue/Turn-In Request)	64
G317	Secure classified property	63
A5	Determine personnel requirements	62
C111	Review equipment forms	62
F228	Certify status of repairable, serviceable, or condemned parts	61
E220	Operate Core Automated Maintenance System (CAMS)	60
B37	Adjust daily maintenance plans to meet operational commitments	57
C102	Evaluate work schedules	54

VARIATIONS

Shop Supervisors
STG 292

OF PEOPLE IN VARIATION: 17
% OF GROUP: 6%

AVERAGE # OF TASKS: 85
MAJCOM: 53% TAC, 18% PACAF
18% USAFE

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: F-16A/B, RF-4C
UNIQUE TEST/SHOP EQUIPMENT USED: Frequency response test sets
UNIQUE SUPPORT EQUIPMENT USED: AN/ALM-126C
AN/ALM-188

TYPICAL TASKS		PMP
B62	Interpret policies, directives, or procedures for subordinates	100
B69	Supervise Electronic Warfare Systems Specialist (AFSC 45651)	88
C112	Review maintenance data collection forms	88
E220	Operate Core Automated Maintenance System (CAMS)	88
A3	Coordinate flightline or shop maintenance activities with maintenance offices	82
B52	Direct shop maintenance	82
C111	Review equipment forms	77

Flightline Supervisors-TAC
STG 346

OF PEOPLE IN VARIATION: 21
% OF GROUP: 8%

AVERAGE # OF TASKS: 119
MAJCOM: 24% TAC, 19% PACAF
18% SAC/ESC

WORK AREA: Electronic Warfare Flightline
Electronic Warfare Shop
AIRCRAFT SUPPORTED: N/A
UNIQUE TEST/SHOP EQUIPMENT USED: Boresight equipment
Breakout boxes
UNIQUE SUPPORT EQUIPMENT USED: AN/ALM-177B

TYPICAL TASKS		PMP
B47	Direct flightline maintenance	90
G323	Transport classified equipment	90
W1033	Operate aerospace ground equipment (AGE), such as power units, heaters, light carts, or lifts	86
W1025	Apply power to aircraft	81
G 316	Safety wire units	71
W1034	Operate or service maintenance dispatch vehicles	71

TABLE XXIX (CONTINUED)

Flightline Supervisors-SAC
STG 320

OF PEOPLE IN VARIATION: 6 — AVERAGE # OF TASKS: 69
% OF GROUP: 2% — MAJCOM: 67% SAC

WORK AREA: Electronic Warfare Flightline
AIRCRAFT SUPPORTED: RC-135U/V/W
UNIQUE TEST/SHOP EQUIPMENT USED: Breakout boxes
Standing wave ratio meters
Wavemeters
UNIQUE SUPPORT EQUIPMENT USED: N/A

TYPICAL TASKS		PMP
A3	Coordinate work activities with other sections or agencies	100
C78	Evaluate completed maintenance	100
A4	Coordinate flightline or shop maintenance activities with maintenance offices	83
B47	Direct flightline maintenance	83
B01	Initiate personnel action requests, such as AF Forms 2096 (Classification/On-The-Job Training Action)	83
B58	Implement quality control programs	67
B66	Supervise Apprentice Electronic Warfare Systems Specialists (AFSC 45631A)	67

Airborne Supervisors
STG 190

OF PEOPLE IN VARIATION: 10 — AVERAGE # OF TASKS: 104
% OF GROUP: 4% — MAJCOM: 50% ESC

WORK AREA: Airborne Maintenance Shop
In-flight Maintenance Section
AIRCRAFT SUPPORTED: RC-135U/V/W
UNIQUE TEST/SHOP EQUIPMENT USED: Decade boxes
Noise figure meters
Transistor testors
Tunable band pass filters
Vacuum-tube voltmeters
Variacs
Video multicouplers
Wattmeters
X-Y plotters
UNIQUE SUPPORT EQUIPMENT USED: Antenna systems
Program read only memory burners

TYPICAL TASKS		PMP
A3	Coordinate work activities with other sections or agencies	100
A20	Establish work schedules	100
B65	Supervise Airborne Electronic Warfare Systems Personnel (AFSC 456X1)	100
A31	Review flight schedules	90
C25	Analyze in flight malfunctions	90
H12	Perform in flight checkouts of electronic equipment	90
H33	Perform in flight maintenance of electronic equipment	90

Airborne QC
STG 704

OF PEOPLE IN VARIATION: 5 — AVERAGE # OF TASKS: 143
% OF GROUP: 2% — MAJCOM: 100% ESC

WORK AREA: Quality Control
AIRCRAFT SUPPORTED: RC-135U/V/W
UNIQUE TEST/SHOP EQUIPMENT USED: Noise figure meters

TABLE XXIX (CONTINUED)

UNIQUE SUPPORT EQUIPMENT USED:
- Antenna systems
- Data analysis consoles
- Digital subsystem test sets
- Ground playback station recorders
- Program read only memory burners
- Processor test station
- Radio frequency test sets
- Recorder control unit

TYPICAL TASKS		PMP
A15	Establish inspection procedures	100
C79	Evaluate deficiency reports, such as materiel, quality, or warranty	100
E177	Annotate or complete AF Forms 2419 (Routing and Review of Quality Control Reports)	100
E187	Complete Field Maintenance Reports (FMR)	100
E210	Maintain deficiency reports, such as materiel, quality, or warranty	100
E218	Maintain publication libraries	100
H325	Analyze in-flight malfunctions	100
H326	Inventory aircraft equipment	100
H332	Perform in-flight checkouts of electronic equipment	100
H333	Perform in-flight maintenance of electronic equipment	100
H353	Upload or download magnetic tapes onto aircraft	100
K479	Isolate malfunctioning AN/USH-24 recording system LRUs on aircraft	100
T929	Perform minimum performance checks on ES-142/142A collection system LRUs	100
B65	Supervise Airborne Electronic Warfare Systems Personnel (AFSC A456X1)	80
C81	Evaluate equipment modification or development data	80
C97	Evaluate quality control procedures	80
E189	Complete quality deficiency reports (QDRs)	80
J420	Perform preflight or postflight operational checks on AN/USH-24 recording systems	80
J435	Perform preflight or postflight operational checks on Rivet Joint systems	80
K495	Isolate malfunctioning ES-142/142A collection systems on aircraft	80
L580	Remove or install ES-142/142A receiving system LRUs	80
L598	Visually inspect ES-142/142A receiving system LRUs	80
R850	Isolate malfunctioning AN/USH-24 recording system LRU subassemblies or components	80
R862	Perform minimum performance checks on AN/USH-24 recording system LRUs	80
R886	Visually inspect AN/USH-24 recording system LRUs	80

Shift Supervisor
STG 314

OF PEOPLE IN VARIATION: 6
% OF GROUP: 2%

AVERAGE # OF TASKS: 84
MAJCOM: 83% ESC, 17% SAC

WORK AREA: Electronic Warfare Flightline
AIRCRAFT SUPPORTED: N/A
UNIQUE TEST/SHOP EQUIPMENT USED:
- Boresight equipment
- Standing wave ratio meters
- X-Y plotters
- X-Y recorders

UNIQUE SUPPORT EQUIPMENT USED:
- HP-8510 network analyzer
- Antenna systems
- Data analysis consoles

TYPICAL TASKS		PMP
G288	Perform soldering tasks	100
G298	Remove or install coaxial cables	100
G317	Secure classified property	100
G277	Change fuses or circuit breakers	83
G281	Inspect coaxial cables	83
G297	Remove or install coaxial cable connectors	83
G303	Remove or install knobs or controls	83
G304	Remove or install light bulbs	83
G306	Remove or install minor hardware, such as latches, screws, or hinges	83
A25	Plan or prepare briefings	67
G285	Lubricate equipment components	67
G300	Remove or install fiber-optic cables	67

TABLE XXIX (CONTINUED)

Supply & Equipment Supervisors
STG 297

OF PEOPLE IN VARIATION: 79
% OF GROUP: 29%
AVERAGE # OF TASKS: 194
MAJCOM: 34% TAC, 22% ESC

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: A-10A, F-16A
UNIQUE TEST/SHOP EQUIPMENT USED: Breakout boxes
Decade boxes
Emission testers
Frequency response test sets
Standing wave ratio meters
Tunable band pass filters
Wattmeters
X-Y plotters
UNIQUE SUPPORT EQUIPMENT USED: AN/ALM-188
Program read only memory burners
Radio frequency test sets

TYPICAL TASKS		PMP
F229	Complete AF Forms 2004 (Issue/Turn-In Request)	93
F228	Certify status of repairable, serviceable, or condemned parts	91
G289	Perform support equipment inspections	91
F236	Coordinate with base supply on obtaining parts	89
F248	Inventory equipment, tools, or supplies, other than aircraft equipment or consolidated tool kits (CTK)	89
G308	Remove or install multiconductor cable connectors	86
F227	Attach or annotate equipment status labels or tags, such as DD Forms 1574 (Serviceable Tag-Materiel)	85
F246	Initiate AF Forms 1297 (Temporary Issue Receipt)	84
I369	Inspect test bench mockups	82
I359	Crate or uncrate equipment	78

Resources Management
STG 468

SUBVARIATIONS: Training (STG 701)
Finance (STG 637)
Mobility (STG 918)
Planning (STG 755)

OF PEOPLE IN VARIATION: 97
% OF GROUP: 35%
AVERAGE # OF TASKS: 120
MAJCOM: 25% TAC, 21% USAFE, 19% ESC

WORK AREA: Electronic Warfare Shop
AIRCRAFT SUPPORTED: F-16A/B
UNIQUE TEST/SHOP EQUIPMENT USED: Frequency response test set
UNIQUE SUPPORT EQUIPMENT USED: N/A

TYPICAL TASKS		PMP
F209	Maintain counseling forms	84
B54	Direct [illegible] of facilities or work areas	80
A11	Develop [illegible] inspection programs	79
A76	Write [illegible] descriptions	79
[illegible]	[illegible] work schedules	75
B54	[illegible] safety or security programs	73
B05	[illegible] development or maintenance of status boards, graphs, or charts	70
A73	Prepare [illegible] reports	68

TABLE XXIX (CONTINUED)

Training
(STG 701)

UNIQUE TASK	PMP
D127 Counsel trainers or instructors	79

Finance
(STG 637)

UNIQUE TASK	PMP
A13 Draft budget requirements	73

Mobility
(STG 918)

UNIQUE TASK	PMP
V1015 Place load list or placard on mobility pallets	100

Planning
(STG 755)

UNIQUE TASK	PMP
A10 Develop organizational or functional charts	80

Training Management
SIG 405

OF PEOPLE IN VARIATION: 6
% OF GROUP: 2%

AVERAGE # OF TASKS: 72
MAJCOM: 33% ESC

WORK AREA: Ground Maintenance Shop
Other
AIRCRAFT SUPPORTED: None
UNIQUE TEST/SHOP EQUIPMENT USED: None
UNIQUE SUPPORT EQUIPMENT USED: N/A

TYPICAL TASKS		PMP
A1	Assign personnel to duty positions	100
A20	Establish work schedules	100
D120	Assign on-the-job training (OJT) trainers or supervisors	100
D126	Counsel trainees on training progress	100
D127	Counsel trainers or instructors	100
A8	Develop equipment utilization or maintenance schedules	83
A12	Develop work methods or procedures	83
D128	Determine OJT training requirements	83
D141	Evaluate OJT trainers or trainees	67
D156	Plan OJT	67
F263	Prepare priority letters for precision measurement equipment repairs	67

TABLE XXIX (CONTINUED)

Supervisors Management
STG 282

OF PEOPLE IN VARIATION: 16
% OF GROUP: 6%

AVERAGE # OF TASKS: 47
MAJCOM: 38% SAC, 31% TAC

WORK AREA: Electronic Warfare Shop
Other
AIRCRAFT SUPPORTED: F-16A, RC-135V/W
UNIQUE TEST/SHOP EQUIPMENT USED: None
UNIQUE SUPPORT EQUIPMENT USED: N/A

TYPICAL TASKS		PMP
B42	Counsel subordinates on personal or military matters	100
A34	Schedule leaves or TDYs	88
C115	Write recommendations for awards or decorations	88
B70	Supervise Electronic Warfare Systems Technicians (AFSC 45671)	81
A1	Assign personnel to duty positions	75
C104	Indorse enlisted performance reports (EPR)	75

TABLE XXX

CAREER FIELD MANAGERS
(STG 81)

VARIATIONS: Publication Requirements (STG 210)
CAMS (STG 271)
Resources (STG 221)
Brief (STG 590)
T&E (STG 275)

OF PEOPLE IN GROUP: 61
% OF TOTAL SAMPLE: 3%

% ASSIGNED CONUS: 79%
MAJCOM: 21% TAC, 20% ESC, 13% SAC

AVERAGE TAFMS: 189 months
AVERAGE TICF: 171 months
AVERAGE PAYGRADE: E-6

AVERAGE # OF TASKS: 34
AVERAGE # PERSONS SUPERVISE: 1

WORK AREA: Other
ORGANIZATIONAL LEVEL: Major Command, Squadron, Wing

AIRCRAFT SUPPORTED: 28% None, 25% Other
UNIQUE TEST/SHOP EQUIPMENT USED: None
UNIQUE SUPPORT EQUIPMENT USED: Other

TOP DUTIES

29% A ORGANIZING AND PLANNING
25% C EVALUATING AND INSPECTING
18% B DIRECTING AND IMPLEMENTING
13% E PERFORMING ADMINISTRATIVE FUNCTIONS

TYPICAL TASKS		PMP
A21	Participate in meetings, such as staff meetings, briefings, conferences, or workshops	94
E221	Operate general office equipment, such as typewriters or small computers	85
A25	Plan or prepare briefings	83
B38	Compile information for reports or staff studies	74
A32	Review drafts of regulations, manuals, or other directives	68
A6	Determine requirement for space, equipment, or supplies	64
B39	Conduct briefings	62
A4	Coordinate work activities with other sections or agencies	57
[illegible]16	Write staff studies, surveys, or special reports, other than training reports	51
A5	Determine personnel requirements	49
C73	Conduct staff assistance visits	49
A19	Establish requirements for publications or technical orders	47
C81	Evaluate equipment modification or development data	45
B62	Interpret policies, directives, or procedures for subordinates	43

VARIATIONS

Publication Requirements
STG 210

OF PEOPLE IN VARIATION: 8
% OF GROUP: 13%

AVERAGE # OF TASKS: 33
MAJCOM: 25% SAC

WORK AREA: Training
Other
AIRCRAFT SUPPORTED: B-52G, Other
UNIQUE TEST/SHOP EQUIPMENT USED: None
UNIQUE SUPPORT EQUIPMENT USED: Other

TABLE XXX (CONTINUED)

TYPICAL TASKS		PMP
A19	Establish requirements for publications or technical orders	88
B50	Direct maintenance of publication or technical order files	88
A6	Determine requirement for space, equipment, or supplies	75
A18	Establish publication files	75
C100	Evaluate technical order improvement reports	50

CAMS
STG 271

OF PEOPLE IN VARIATION: 5
% OF GROUP: 8%
AVERAGE # OF TASKS: 40
MAJCOM: 60% USAFE

WORK AREA: Maintenance Administration
Maintenance Analysis
Other
AIRCRAFT SUPPORTED: N/A
UNIQUE TEST/SHOP EQUIPMENT USED: Calculators
Printers
UNIQUE SUPPORT EQUIPMENT USED: Other

TYPICAL TASKS		PMP
C73	Conduct staff assistance visits	100
E220	Operate Core Automated Maintenance System (CAMS)	100
A5	Determine personnel requirements	80
B61	Initiate personnel action requests, such as AF Forms 2096 (Classification/On-The-Job Training Action)	80

Resources
STG 221

OF PEOPLE IN VARIATION: 8
% OF GROUP: 13%
AVERAGE # OF TASKS: 38
MAJCOM: 50% ESC, 25% SAC

WORK AREA: Maintenance Administration
Other
AIRCRAFT SUPPORTED: None
UNIQUE TEST/SHOP EQUIPMENT USED: None
UNIQUE SUPPORT EQUIPMENT USED: Other

TYPICAL TASKS		PMP
A7	Determine work priorities	88
A13	Draft budget requirements	88
A24	Plan layout of facilities	88
C86	Evaluate maintenance or use of workspace, equipment, or supplies	63
C115	Write recommendations for awards or decorations	63
B41	Counsel subordinates on job progression or career development	50

Brief
STG 590

OF PEOPLE IN VARIATION: 5
% OF GROUP: 8%
AVERAGE # OF TASKS: 14
MAJCOM: 40% ESC

WORK AREA: Other
AIRCRAFT SUPPORTED: TR-1
UNIQUE TEST/SHOP EQUIPMENT USED: None
UNIQUE SUPPORT EQUIPMENT USED: Other

TABLE XXX (CONTINUED)

TYPICAL TASKS		PMP
A21	Participate in meetings, such as staff meetings, briefings, conferences, or workshops	100
A25	Plan or prepare briefings	100
A28	Prepare agenda for staff meetings	80
A32	Review drafts of regulations, manuals, or other directives	80
B38	Compile information for reports or staff studies	80
B39	Conduct briefings	80

T&E
STG 275

SUBVARIATIONS: RDT&E (STG 955)
IOT&E (STG 359)

OF PEOPLE IN VARIATION: 17
% OF GROUP: 28%

AVERAGE # OF TASKS: 44
MAJCOM: 29% TAC, 24% AFLC/MAC

WORK AREA: Other
AIRCRAFT SUPPORTED: N/A
UNIQUE TES./SHOP EQUIPMENT USED: None
UNIQUE SUPPORT EQUIPMENT USED: Other

TYPICAL TASKS		PMP
A32	Review drafts of regulations, manuals, or other directives	94
C81	Evaluate equipment modification or development data	88
C89	Evaluate methods of testing new electronic warfare equipment	88
C100	Evaluate technical order improvement reports	82
C79	Evaluate deficiency reports, such as materiel, quality, or warranty	76
C79	Evaluate prototype or modified equipment	76

RDT&E
(STG 955)

UNIQUE TASKS		PMP
C92	Evaluate new electronic warfare systems under qualification test and evaluation (QT&E)	100
A29	Prepare agenda for symposiums, conferences, or workshops	88
B54	Draft higher headquarters directives	88
C93	Evaluate new electronic warfare systems under research development test and evaluation (RDT&E)	88
E213	Maintain files of classified material or messages	88
C99	Evaluate suggestions	75

IOT&E
(STG 359)

UNIQUE TASKS		PMP
C92	Evaluate new electronic warfare systems under qualification test and evaluation (QT&E)	100
C89	Evaluate methods of testing new electronic warfare equipment	100
C91	Evaluate new electronic warfare systems under initial operational test and evaluation (IOT&E)	83