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UNITED STATES AIR FORCE

OCCUPATIONAL SURVEY REPORT DTIC QUALITY INSPECTED 2

AIRCRAFT ELECTRICAL AND ENVIRONMENTAL SYSTEMS

AFSC 2A6X6

AFPT 90-2A6-095

SEPTEMBER 1997

OCCUPATIONAL MEASUREMENT SQUADRON AIR FORCE OCCUPATIONAL MEASUREMENT SQUADRON AIR EDUCATION AND TRAINING COMMAND 1550 5TH STREET EAST RANDOLPH AFB, TEXAS 78150-4449

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PREFACE

This report presents the results of a detailed Air Force Occupational Survey of the Aircraft Electrical and Environmental Systems career ladder, Air Force Specialty Code (AFSC) 2A6X6. Authority for conducting occupational surveys is contained in AFI 36-2623. Copies of this report and pertinent computer printouts are distributed to the Air Force Functional Manager, the operations training location, all major using commands, and other interested operations and training officials.

The survey instrument was developed by Lieutenant(N) Brian R. Thompson, Inventory Development Specialist, with computer programming support furnished by Mr. Tyrone Hill. Mr. Richard G. Ramos provided administrative support. Second Lieutenant Charlie L. Law, Occupational Analyst, analyzed the data and wrote the final report. This report has been reviewed and approved by Lieutenant Colonel Roger W. Barnes, Chief, Airman Analysis Section, Occupational Analysis Flight, Air Force Occupational Measurement Squadron (AFOMS).

Additional copies of this report can be obtained by writing to AFOMS/OMYXI, 1550 5th Street East, Randolph AFB Texas 78150-4449, or by calling DSN 487-5543. For information on the Air Force occupational survey process or other on-going projects, visit our web site at http://www.omsq.af.mil.

GEORGE KAILIWAI III, Lt Col, USAF Commander Air Force Occupational Measurement Squadron JOSEPH S. TARTELL Chief, Occupational Analysis Flight Air Force Occupational Measurement Squadron

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SUMMARY OF RESULTS

1. <u>Survey Coverage</u>: The Aircraft Electrical and Environmental Systems career ladder was surveyed to obtain current job and task data for use in examining training programs. Survey results are based on responses from 1,823 AFSC 2A6X6 personnel, which represents 30 percent of the assigned population. The Air National Guard (ANG), Air Force Reserve (AFRES) and all major commands are satisfactorily represented in the survey sample.

2. <u>Specialty Jobs</u>: Four clusters and four jobs were identified in the career ladder structure analysis. The four clusters were: Flightline, Backshop, Training, and Supervisors. Four independent jobs were also identified: Power, Oxygen, Quality Assurance Inspector, and Safety Inspector. Specialty descriptions in AFMAN 36-2108 are complete and generally are accurate portravals of the nature of the job.

3. <u>Career Ladder Progression</u>: Nearly all 3-skill level personnel perform only technical duties. Although 5-skill level jobs are technically oriented, they also have a minimal supervisory aspect. The 7-skill level members devote most of their time to supervisory/management duties. The AFMAN 36-2108 *Specialty Description* provides a broad and accurate overview of tasks and duties performed within the career ladder, as well as the primary responsibilities of members in the eight jobs identified by the job structure analysis process.

4. <u>Training Analysis</u>: A match of survey data to the AFSC 2A6X6 Specialty Training Standard (STS) identified numerous tasks not referenced to the STS. This included all of the tasks listed under the Performing General Aircraft and Cross Utilization Training (CUT) Activities. Career ladder functional managers and training personnel should carefully review the unsupported STS items to justify their continued inclusion in the training documents.

5. Job Satisfaction Analysis: The majority of job satisfaction measures for the AFSC 2A6X6 were high. Group incumbents are about as satisfied as the previous samples and very similar to other career ladders in a comparative sample. As might be expected, those jobs and clusters with more experienced personnel tended to have the highest expressed levels of job satisfaction.

6. <u>Implications</u>: The career ladder structure is quite similar to that found in the previous OSR. Career ladder progression is normal, showing a movement away from the technical tasks common at the lower skill levels as the incumbents move toward the 7-skill level. For this survey, the ANG and the AFRES AFSC 2A6X6 personnel were included in the survey process and the analysis of the career field.

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OCCUPATIONAL SURVEY REPORT (OSR) SERVICES CAREER LADDER (AFSC 2A6X6)

INTRODUCTION

This is a report of an occupational survey of the Aircraft Electrical and Environmental Systems career ladder, completed by the Occupational Analysis Flight, Air Force Occupational Measurement Squadron. This survey was completed as part of a 5-year cycle. The current Specialty Training Standard (STS) is dated September 1994. The last occupational survey for this career ladder was published in January 1993.

Background

As described in the AFMAN 36-2108 *Specialty Description*, dated 30 April 1994, members of the Aircraft Electrical and Environmental Systems career ladder inspect, troubleshoot, and maintain aircraft electrical and environmental systems, subsystems, components, and test equipment. In addition, members also install, test, modify, repair and overhaul aircraft electrical and environments and test equipment.

All members are required to attend the J3ABR2A636-001 Aircraft Electrical and Environmental Systems apprentice course. The course, offered at Sheppard AFB, is 87 days long. The Aircraft Electrical and Environmental Systems Craftsman course, J3AAR2A676-000, is 10 days long. Entry into the career ladder currently requires Armed Forces Vocational Aptitude Battery minimum scores of 45 Mechanical and 60 Electronic, and the strength factor of "K" (weight lift of 70 lbs) must be met or exceeded.

SURVEY METHODOLOGY

Inventory Development

The data collection instrument for this occupational survey was USAF Job Inventory (JI) Air Force Personnel Test 90-2A6-095, dated August 1996. A tentative task list was prepared after reviewing pertinent career ladder publications and directives, tasks from the

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previous survey instrument, and data from the last OSR. The preliminary task list was refined and validated through personal interviews with 41 Subject-Matter Experts (SMEs) (selected to cover a variety of major commands (MAJCOMs)) at the following locations:

| BASE | REASON FOR VISIT |
|-------------------|------------------|
| Sheppard AFB TX | 364 TRS/TTMAS |
| Hurlburt Field FL | 16 SOW/LGM |
| Dyess AFB TX | 7 LG/LGMCV |
| Phoenix AZ | 161 ARG |
| Nellis AFB NV | 57 LG/OG |
| Barksdale AFB LA | 2 LG/OG |
| Travis AFB CA | LGLT |

Others contacted included Air Force Personnel Center (AFPC) classification personnel, functional and resource managers, and the Air Force Career Field Manager.

The resulting JI contained a comprehensive listing of 654 tasks grouped under 25 duty headings, and a background section requesting such information as grade, duty title, functional area, types of equipment operated, job satisfaction, and forms used.

Survey Administration

In October 1996 there were 3,920 active duty members assigned to the career ladder. Additionally, there were 1,050 Air Force Reserve (AFRES) personnel, and 1,233 Air National Guard (ANG) personnel assigned to the career ladder. Fifty percent of the eligible population were selected by a stratified random selection process for participation in the survey. Base Training Offices at operational bases worldwide administered the inventory to 2,831 eligible AFSC 2A6X6 members. Members eligible for this survey consisted of the total assigned 3-, 5-, and 7-skill levels, excluding the following: (1) hospitalized personnel; (2) personnel in transition for a permanent change of station; (3) personnel retiring during the time the JIs were administered to the field; and (4) personnel in their job less than 6 weeks. Job incumbents were selected from a computer-generated mailing list obtained from personnel data tapes maintained by AFPC, Randolph AFB TX. Respondents were asked to complete an identification and biographical information section first and go through the booklet and check each task performed in their current job. After checking all tasks performed, respondents then rated each of these tasks on a 9-point scale showing relative time spent on that task, as compared to all other tasks checked. The ratings ranged from 1 (very small amount time spent) through 5 (about average time spent) to 9 (very large amount time spent).

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

Survey Sample

The final AFSC 2A6X6 survey sample includes responses from 1,823 job incumbents. Table 1 reflects the MAJCOM distribution of assigned AFSC 2A6X6 personnel. The 1,823 respondents represent 30 percent of the assigned population and 64 percent of those surveyed. Table 2 reflects the distribution by paygrade and component status. These figures show that the sample is representative of the total population.

Task Factor Administration

Job descriptions alone do not provide sufficient data for making decisions about career ladder documents or training programs. Task factor information is needed for a complete analysis of the career ladder. While most participants in the survey process completed a USAF JI, selected senior AFSC 2A6X6 personnel were also asked to complete booklets providing judgments on task training emphasis (TE) or task difficulty (TD). The information gained from task factor data is used in various analyses and is a valuable part of the training decision process.

Training Emphasis (TE). TE is a rating of the amount of emphasis that should be placed on tasks in entry-level training. The 47 senior NCOs from the career ladder who completed a TE booklet were asked to select tasks they felt required some structured training for entry-level personnel and then indicate how much training emphasis these tasks should receive, from 1 (extremely low emphasis) to 10 (extremely high emphasis). Structured training is defined as training provided at resident technical schools, field training detachments (FTDs), mobile training teams, formal on-the-job training (OJT), or any other organized training method. There was very good agreement among the 47 raters as to which tasks required some form of structured training and which do not. The average TE rating was 2.65, with a standard deviation of 1.66. Any task with a TE rating of 4.31 or above is considered to have high training emphasis.

MAJCOM REPRESENTATION OF AFSC 2A6X6 SAMPLE

| MAJCOM | PERCENT OF ASSIGNED* | PERCENT OF SAMPLE |
|--------|-------------------------|----------------------|
| USAFE | 4 | 4 |
| AETC | 7 | 7 |
| PACAF | 6 | 6 |
| ACC | 25 | 26 |
| AMC | 15 | 14 |
| AFMC | 3 | 4 |
| AFSOC | 4 | 3 |
| AG | 17 | 20 |
| AFR | 20 | 16 |

| | AFSC 2A6X6 | AFSC 2A6X6 | AFSC 2A6X6 |
|-------------------------------|-------------|--------------|----------------|
| | ACTIVE DUTY | <u>GUARD</u> | <u>RESERVE</u> |
| TOTAL ASSIGNED | 3,920 | 1,233 | 1,050 |
| TOTAL ELIGIBLE | 3,522 | 1,181 | 986 |
| TOTAL IN SAMPLE | 1,161 | 362 | 300 |
| PERCENT OF ASSIGNED IN SAMPLE | 30% | 29% | 29% |
| PERCENT OF ELIGIBLE IN SAMPLE | 33% | 31% | 30% |

*

Assigned strength as of October 1996 Excludes personnel in PCS, student, or hospital status, or less than 6 weeks on the job **

| | PERCE ACTIVE | | PERCE AIR RE | | PERCEN AIR GU | ARD |
|--|----------------------------------|--------------------------------|---------------------------------|---------------------------|---------------------------------|--------------------------------|
| PAYGRADE | ASSIGNED | SAMPLE | ASSIGNED | SAMPLE | ASSIGNED | SAMPLE |
| E-1 to E-3 E-4 E-5 E-6 E-7 E-8 E-9 | 26 25 26 13 10 <1 | 25 26 26 14 9 - | 1 16 45 27 11 <1 | 10 45 31 14 - | 4 20 39 26 11 <1 | 2 15 41 27 14 - |

PAYGRADE DISTRIBUTION OF SURVEY SAMPLE

* Assigned strength as of October 1996

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

Task Difficulty (TD). TD is an estimate of the amount of time needed to learn how to do each task satisfactorily. The 46 senior NCOs who completed TD booklets were asked to rate the difficulty of each task using a 10-point scale (i.e., extremely low to extremely high). Ratings were standardized so tasks have an average difficulty of 5.00, with a standard deviation of 1.00. Any task with a TD rating of 6.00 or above is considered difficult to learn.

When used in conjunction with the primary criterion of percent members performing, TD and TE ratings can provide insight into first-enlistment personnel training requirements. Such insights may suggest a need for lengthening or shortening portions of instruction supporting Air Force Specialty entry-level jobs.

SPECIALTY JOBS

(Career Ladder Structure)

The occupational analysis process begins with an examination of the career ladder structure. The structure of jobs within the Aircraft Electrical and Environmental Systems career ladder was examined on the basis of similarity of tasks performed and the relative percent of time spent ratings provided by job incumbents, independent of other specialty background factors.

The first step in the analysis process is to identify the structure of the career ladder in terms of the jobs performed by respondents. The Comprehensive Occupational Data Analysis Program (CODAP) assists by creating an individual job description for each respondent based on the tasks performed and the relative amount of time spent on tasks. The CODAP automated job clustering program then compares all the individual job descriptions, locates the two descriptions with the most similar tasks and time spent ratings, and combines them to form a composite job description. In successive stages, new members are added to this initial group, or new groups are formed based on the similarity of tasks and time spent ratings.

The basic group used in this hierarchical clustering process is the <u>Job</u>. When two or more jobs have a substantial degree of similarity in tasks performed and time spent on tasks, they are grouped together and identified as a <u>Cluster</u>. The structure of the career ladder is then defined in terms of jobs and clusters of jobs. The resulting job structure information can be used to evaluate the accuracy of career ladder documents (i.e., AFMAN 36-2108 Specialty Descriptions, the Career Field Education and Training Plan, and STSs), as well as to gain a better understanding of current utilization patterns. The above terminology will be used in the discussion of the AFSC 2A6X6 career ladder structure.

Overview of Specialty Jobs

A listing of these jobs and job clusters is provided below. The stage (STG) number shown beside each title references computer printed information, the letter "N" represents the number of personnel in each group. Figure 1 illustrates the division of jobs performed by AFSC 2A6X6 personnel.

I. POWER JOB (STG134, N=18)

II. FLIGHTLINE CLUSTER (STG083, N=1,274)

III. BACKSHOP CLUSTER (STG107, N=172)

IV. OXYGEN JOB (STG125, N=12)

V. TRAINING CLUSTER (STG084, N=30)

VI. QUALITY ASSURANCE INSPECTOR JOB (STG127, N=11)

VII. SUPERVISOR CLUSTER (STG099, N=86)

VIII. SAFETY INSPECTOR JOB (STG122, N=12)

The respondents forming these jobs account for 89 percent of the survey sample. The remaining 11 percent were performing tasks or series of tasks which did not group with any of the defined jobs. Some job titles for these individuals include: Rotary Wing Program Manager. Dayshift Lead Technician, Resource Advisor, Squadron Mobility NCO, and Aviation Maintenance Manager.

Group Descriptions

The following paragraphs contain brief descriptions of the jobs and clusters identified through the career ladder structure analysis. Table 3 presents the relative time spent on duties by members of these specialty jobs, while Table 4 provides demographic information for each job discussed within this report. Representative tasks for all the groups are contained in Appendix A1.

I. <u>POWER JOB (STG018)</u>. The 18 members of this job compromise less than 1 percent of the survey sample. Personnel in the Power Job work primarily with aircraft power systems. This includes working with AC and DC power systems, isolating malfunctions, removing and installing power components and inspecting power components. Over 36 percent



Others includes: Power, Oxygen, Quality Inspector, and Safety Inspector

RELATIVE PERCENT TIME SPENT PERFORMING DUTIES BY SPECIALTY JOBS

| D | DUTIES | POWER (STG134) (N=18) | FLIGHTLINE (STG083) (N=1274) | BACKSHOP (STG107) (N=172) | OXYGEN (STG125) (N=12) |
|--------------|---|-----------------------------|------------------------------------|---------------------------------|------------------------------|
| V | PERFORMING AIRCRAFT ELECTRICAL AND ENVIRONMENTAL FUNDAMENTAL | 28 | 8 | 14 | 8 |
| 2 | MAINTENANCE Martaring a fice a et dowled and distribuilition systems | 36 | Ξ | × | ç |
| ں م | MAINTAINING ENGINE START AND IGNITION CONTROL SYSTEMS | ς η | | * | 1 1 |
| D | MAINTAINING LANDING GEAR SYSTEMS | S | 9 | 2 | |
| ш | MAINTAINING CARGO DOOR AND RAMP SYSTEMS | 2 | - | * | ı |
| ц | MAINTAINING FUEL AND WATER INJECTION SYSTEMS | 1 | 1 | * | * |
| G | MAINTAINING FLIGHT CONTROL SYSTEMS | 7 | 3 | 1 | ı |
| Η | MAINTAINING BATTERIES | 4 | 2 | × | 16 |
| I | MAINTAINING MASTER CAUTION AND WARNING SYSTEMS | 1 | ę | - | 1 |
| - | MAINTAINING FIRE AND OVERHEAT WARNING SYSTEMS | 7 | ŝ | 1 | * |
| Х | MAINTAINING LIGHTING SYSTEMS | 4 | 9 | 7 | * |
| Ч | MAINTAINING ANTI-ICING SYSTEMS | * | 2 | * | 1 |
| Σ | MAINTAINING AIRCRAFT FIRE EXTINGUISHING SYSTEMS | l | ę | 1 | * |
| z | MAINTAINING AIRCRAFT OXYGEN SYSTEMS AND ASSOCIATED EQUIPMENT | 4 | × | 19 | 30 |
| 0 | MAINTAINING AIRCRAFT PRESSURIZATION SYSTEMS | 1 | 4 | 1 | , |
| Ч | MAINTAINING AUXILIARY AIR AND BLEED AIR DISTRIBUTION SYSTEMS | 2 | 7 | | • |
| 0 | MAINTAINING AIRCRAFT LIQUID COOLANT AND LIQUID CYCLE REFRIGERATION SYSTEMS | • | - | * | 1 |
| ′ ~ | MAINTAINING AIRCRAFT AIR-CONDITIONING SYSTEMS | 4 | 7 | 2 | • |
| S | MAINTAINING MISCELLANEOUS ELECTRICAL ENVIRONMENTAL CONTROL SYSTEMS | 1 | 7 | 11 | 15 |
| [| PERFORMING GENERAL AIRCRAFT AND CROSS UTILIZATION TRAINING (CUT) ACTIVITIES | I | 8 | I | 1 |
| D | PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES | * | 4 | 8 | 1 |
| > | PERFORMING TRAINING ACTIVITIES | * | 7 | æ | 1 |
| W | PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER SYSTEM ACTIVITIES | • | 1 | | 4 |
| × | PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES | * | - | ŝ | 11 |
| Υ | PERFORMING MAINTENANCE MANAGEMENT ACTIVITIES | 1 | S | 2 | 6 |
| | | | | | |

* Denotes less than 1 percent

TABLE 3 (CONTINUED)

RELATIVE PERCENT TIME SPENT PERFORMING DUTIES BY SPECIALTY JOBS

| 10 | DUTIES | TRAINING (STG 084) (N=30) | QA INSPECTOR (STG127) (N=11) | SUPERVISOR (STG099) (N=86) | SAFETY (STG012) (N=12) |
|------------|---|---------------------------------|---------------------------------------|----------------------------------|------------------------------|
| V | PERFORMING AIRCRAFT ELECTRICAL AND ENVIRONMENTAL FUNDAMENTAL MAINTENANCE | 4 | 4 | 1 | - |
| n C | MAINTAINING AIRCRAFT POWER AND DISTRIBUTION SYSTEMS MAINTAINING ENGINE START AND IGNITION CONTROL SYSTEMS | 4 * | 4. | + | * |
| D u | MAINTAINING LANDING GEAR SYSTEMS | - | 3 - | + + | |
| 1 F | MAINTAINING CARGO DOOR AND RAMP SYSTEMS MAINTAINING FUEL AND WATER INJECTION SYSTEMS | * * | * * | * * | · |
| 0 1 | MAINTAINING FLIGHT CONTROL SYSTEMS | 2 | 3 | * | |
| | MAINTAINING MAITER CAUTION AND WARNING SYSTEMS | | , | * * | * |
| - | MAINTAINING FIRE AND OVERHEAT WARNING SYSTEMS | ter general | | • • | |
| ¥ - | MAINTAINING LIGHTING SYSTEMS | 5 | 2 | ¥ | ı |
| ג ≥ | MAINTAINING ANTI-ICING SYSTEMS MAINTAINING AIPCPAET FIDE EVTINGHING EVERTING | * + | <u></u> - · | * | 1 |
| Ξz | MAINTAINING AIRCRAFT LYING GALINUUUSHINU SYSTEMS MAINTAINING AIRCRAFT OXYGEN SYSTEMS AND ASSOCIATED FOLIIDAGNT | * - | - , | * • | * |
| 0 | MAINTAINING AIRCRAFT PRESSURIZATION SYSTEMS | | <i></i> | • * | 1 |
| ፈ | MAINTAINING AUXILIARY AIR AND BLEED AIR DISTRIBUTION SYSTEMS | × | 1 თ | * | 1 1 |
| Ø | MAINTAINING AIRCRAFT LIQUID COOLANT AND LIQUID CYCLE REFRIGERATION SYSTEMS | * | * | ¥ | 1 |
| R | MAINTAINING AIRCRAFT AIR-CONDITIONING SYSTEMS | - | ć | * | I |
| S F | MAINTAINING MISCELLANEOUS ELECTRICAL ENVIRONMENTAL CONTROL SYSTEMS | • * | 10 | ¥ | • * |
| T | ACTIVITIES | 1 | 4 | Π | • |
| D | PERFORMING MANAGEMENT AND SUPERVISORY ACTIVITIES | 21 | 27 | 57 | 78 |
| > | PERFORMING TRAINING ACTIVITIES | 47 | 4 | 6 | ? m |
| ≩ | PERFORMING GENERAL ADMINISTRATIVE AND TECHNICAL ORDER SYSTEM ACTIVITIES | 4 | 7 | 9 | 12 |
| × : | PERFORMING GENERAL SUPPLY AND EQUIPMENT ACTIVITIES | 3 | 2 | S | 7 |
| Y | PERFORMING MAINTENANCE MANAGEMENT ACTIVITIES | 7 | 23 | 20 | 4 |

* Denotes less than 1 percent

.

| | POWER | FLIGHTLINE | BACKSHOP | OXYGEN |
|---|-------------------------------|-------------------------------|-------------------------------|-------------------------------------|
| | (STG134) | (STG083) | (STG107) | (STG125) |
| NUMBER IN GROUP | 18 | 1274 | 172 | 12 |
| PERCENT OF SAMPLE | 1% | 69% | 9% | <1% |
| PERCENT IN CONUS | 94 | 85 | 72 | 75 |
| DAFSC DISTRIBUTION: 2A636 2A656 2A676 | 22% 67% 11% | 18% 57% 24% | 38% 47% 15% | 50% 50% 0% |
| COMPONENT STATUS ACTIVE DUTY AIR FORCE RESERVES (AFRES) AIR NATIONAL GUARD (ANG) | 50% 6% 45% | 57% 20% 23% | 95% 4% 1% | 92% 8% 0% |
| PAYGRADE DISTRIBUTION E-1 to E-3 E-4 E-5 E-6 E-7 E-8 E-9 E-9 | 11% 39% 17% 0% 0% | 14% 23% 21% 0% 0% | 34% 23% 12% 3% 0% | 50% 25% 17% 8% 0% 0% |
| PERCENT SUPERVISING | 17% | 39% | 44% | 8% |
| AVERAGE NUMBER OF TASKS PERFORMED | 64 | 193 | 119 | 49 |

SELECTED BACKGROUND DATA FOR SPECIALTY JOBS

* Denotes less than 1 percent

TABLE 4

| (CONTINUED) | |
|----------------|--|
| TABLE 4 | |

SELECTED BACKGROUND DATA FOR SPECIALTY JOBS

| | TRAINING | QA INSPECTOR | SUPERVISOR | SAFETY |
|---|------------------------------|------------------------------------|-----------------------------------|---|
| | (STG084) | (STG127) | (STG099) | (STG012) |
| NUMBER IN GROUP | 30 | 11 | 86 | 12 |
| PERCENT OF SAMPLE | 1% | <1% | 5% | <1% |
| PERCENT IN CONUS | 93 | 73 | 83 | 67 |
| DAFSC DISTRIBUTION: 2A636 2A656 2A676 | 0% 73% 27% | 55% 45% 0% | 0% 8% 92% | 0% 25% 75% |
| COMPONENT STATUS ACTIVE DUTY AIR FORCE RESERVES (AFRES) AIR NATIONAL GUARD (ANG) | 100% 0% 0% | 91% 0% 9% | 86% 7% 7% | 100% 0% 0% |
| PAYGRADE DISTRIBUTION E-1 to E-3 E-4 E-5 E-6 E-7 E-8 E-8 E-9 | 0% 0% 27% 13% 0% | 0% 0% 36% 36% 0% 0% | 0% 1% 2% 74% 1% 0% | 0% 0% 25% 17% 58% 0% 0% |
| PERCENT SUPERVISING | 77% | 36% | 87% | 33% |
| AVERAGE NUMBER OF TASKS PERFORMED | 66 | 93 | 74 | 32 |

* Denotes less than 1 percent

of their job time is spent performing these activities, more time than members of any other job. The members of this job perform an average of 64 tasks, which is fairly low when compared to most of the other jobs. The low number of tasks suggests that this job is fairly specialized with members performing a small number of tasks concerning power systems. Members of this job are distinguished by the time they spend on the following tasks:

perform operational checks of AC power systems remove or install AC power components perform operational checks of DC power systems isolate AC power malfunctions remove or install DC power components isolate DC power malfunctions inspect AC power components perform operational checks of external power systems

Most of the personnel in this job hold the 5-skill level and are in paygrades E-4 and E-5. Only 17 percent report having supervisory responsibilities.

II. <u>FLIGHTLINE CLUSTER (STG083</u>). Comprising 69 percent of the survey sample, this core job includes 1,274 members who are responsible for flightline related duties. Much of their time is spent performing operational checks, inspecting, isolating problems, and removing and installing a wide variety of components. Eleven percent of their time is spent maintaining aircraft power and distribution systems. One reason for the wide variety of duties performed in this cluster is the nature of the job itself. The cluster did not break down by aircraft, so the Flightline Cluster includes all types of aircraft. This includes fighter, cargo, and transport aircraft. The core tasks performed on each of these aircraft were similar; however, small differences in the tasks performed may have caused the wide range of duties performed. Two jobs were also identified in this cluster. Personnel within the Battery Job performed mostly battery related duties, such as cleaning and replacing batteries. Personnel in the General Maintenance Job performed a variety of general maintenance activities, such as aircraft towing tasks. Personnel in the Flightline Cluster perform an average of 193 tasks. This number is high when compared to other clusters and jobs. Some of the tasks which distinguish this cluster are:

crimp splices or terminals to wires perform operational checks of AC power systems perform operational checks of air-conditioning systems perform operational checks of exterior lighting perform operational checks of interior lighting assemble or disassemble connector plugs remove or install bleed air system components inspect wire bundles or harnesses perform operational checks of anti-skid systems The predominant skill level for this cluster was the 5-skill level with the 7-skill level following. The majority of the personnel in the Flightline Cluster are paygrade E-4 and E-5. Thirty-nine percent of the personnel in this cluster report supervising others, which is about average compared to other clusters and jobs.

III. <u>BACKSHOP CLUSTER (STG107)</u>. The 172 members in this cluster are tasked with the duties that typically are not accomplished on the flightline. In fact, the duty location is the primary factor that separated this cluster from the Flightline Cluster. Members in this cluster are responsible for a variety of tasks, including battery and oxygen related tasks. Ninety-five percent of the members of this cluster are active duty, with only 4 percent AFRES and 1 percent ANG. The members of this cluster comprise 9 percent of the sample, which makes it the second largest job identified. Nineteen percent of their time is spent maintaining aircraft oxygen systems, while 14 percent is spent performing aircraft electrical and environmental maintenance. Three separate jobs were identified in this cluster. The backshop supervisors did almost exclusively supervisory-related tasks. Backshop managers did a combination of supervisory and technical tasks. Finally, the backshop technicians did almost all technical tasks with very few supervisory tasks. Overall, an average of 119 tasks are performed by personnel in this cluster, which is the second highest, and fairly high when compared to the other clusters and jobs. Tasks that distinguish this cluster include:

clean batteries assemble or disassemble batteries perform capacitance tests and service batteries inspect LOX servicing carts crimp splices or terminals to wires isolate LOX servicing cart malfunctions bench check exterior lighting components clean connector plugs inspect liquid nitrogen servicing carts

The majority of the personnel in this cluster are 5-skill level. A high percentage of personnel also are 3-skill level, with only 15 percent of the cluster at the 7-skill level. The E-1 to E-3 paygrade had the highest percentage of personnel, which is second only to the Oxygen Job at this paygrade level.

IV. <u>OXYGEN JOB (STG125)</u>. Eleven of the 12 members in this job are active duty, with the remaining member AFRES. This job comprises less than 1 percent of the survey sample. Members of this job primarily maintain liquid oxygen (LOX) and gaseous oxygen (GOX) systems. This includes inspecting, isolating malfunctions, and removing and installing

components. Thirty percent of their time is spent on oxygen systems, which is higher than any other job group. An average of 49 tasks are performed, which is the second lowest when compared to other jobs. Most of those tasks are very specialized to oxygen duties. Working with batteries and maintaining miscellaneous electrical environmental control systems are also important skills for members of this job. Some tasks which are representative of the job are:

purge LOX servicing carts remove or install LOX servicing cart components perform leakage checks of LOX servicing carts inspect LOX servicing carts perform operational checks of LOX servicing carts perform operational checks of GOX servicing carts isolate LOX servicing cart malfunctions perform leakage checks of GOX servicing carts

The personnel in the Oxygen Job are split between the 3- and 5-skill level, with 50 percent in each. The predominant paygrades are E-1 to E-3, which account for 50 percent of the members of this job. There are not any members above E-6. The percent supervising is only 8 percent for this job, which is the lowest of any job group.

V. <u>TRAINING CLUSTER (STG084</u>). The 30 members of this cluster represent 1 percent of the survey sample. The Training Cluster is the third largest cluster or job identified. Members of this cluster are responsible for the formal training of job incumbents. Two distinct jobs were identified within this cluster. The first job identified those members who worked only as instructors. Typically, this was the classroom, formal instruction. Members in the second job also were instructors but were also performing a large amount of technical duties. Members of this cluster performed an average of 66 tasks. This is about average when compared to the other job groups. Members in the Training Cluster spend 47 percent of their time performing training activities. That is much higher than any other cluster or job. In addition, 21 percent of their time is spent performing management and supervisory activities. Representative tasks performed by members of this cluster include:

conduct formal course classroom training administer or score tests demonstrate operation of equipment evaluate progress of trainees develop training materials or aids personalize lesson plans demonstrate how to locate technical information develop performance tests Seventy-three percent of the members in the Training Cluster are at the 5-skill level, while the other 27 percent are at the 7-skill level. All of the members in this cluster are active duty. Most of the personnel are E-5 and E-6 paygrades. Seventy-seven percent of the personnel report supervising other personnel.

VI. <u>QUALITY ASSURANCE INSPECTOR JOB (STG127</u>). The 11 members forming this group are primarily responsible for quality assurance functions. Members of this job perform duties such as inspecting records, observing work procedures, and evaluating procedures, all of which are directly related to quality assurance. Twenty-seven percent of their time is spent performing management and supervisory activities and 23 percent is spent performing maintenance management activities. Most of the members of this job report working in a Quality Assurance office. The average number of tasks performed was 93 for members in the Quality Assurance Inspector Job. This job is distinguished by the following tasks:

> evaluate maintenance procedures complete accident or incident reports analyze Core Automated Maintenance System (CAMS) data initiate technical order improvement reports observe in-process maintenance or initiate on-the-spot corrections review publishing bulletins or technical order changes write inspection reports perform maintenance activity inspections or self-inspections

Fifty-five percent of the quality assurance inspectors are at the 3-skill level with the other 45 percent at the 7-skill level. Thirty-six percent of the personnel in this job have the E-5 paygrade and 36 percent also are at the E-7 paygrade. Ninety-one percent are active duty and 9 percent are ANG. Thirty-six percent report supervising, which is about average when compared to the other jobs.

VII. <u>SUPERVISOR CLUSTER (STG099)</u>. The 86 members comprising this cluster represent 5 percent of the sample. There are two separate jobs within the Supervisor Cluster. The first job is purely a supervisory one. Members of this job are responsible for such tasks as determining work assignments, writing performance reports, and counseling subordinates. Maintenance supervisors comprise the second job within the Supervisor Cluster. Members of this job are responsible for tasks such as coordinating aircraft maintenance activities and reviewing aircraft maintenance records. Both of these jobs are similar with members in each respective job performing primarily supervisory tasks. The maintenance supervisors, however, perform unique tasks specific to maintenance. The majority of the personnel report working in a maintenance shop. Members of the Supervisor Cluster report spending 57 percent of their time

performing management and supervisory activities and 20 percent of their time is spent performing maintenance management activities. Personnel in this cluster perform an average of 74 tasks, which is about average compared to other jobs. Representative tasks performed by members of this cluster include:

> supervise military personnel determine or establish work assignments or priorities develop or establish work schedules evaluate personnel for compliance with performance standards write performance reports or supervisory appraisals coordinate aircraft maintenance activities with maintenance control evaluate maintenance procedures conduct self-inspections or self-assessments

Ninety-two percent of the members in the Supervisor Cluster are at the 7-skill level and 8 percent are at the 5-skill level. Seventy-four percent are paygrade E-7. Eighty-seven percent report supervisory responsibilities, which is much higher than any other job or cluster.

VIII. <u>SAFETY INSPECTOR JOB (STG122</u>). The 12 members of this job account for less than 1 percent of the survey population. Personnel in this job primarily inspect for work hazards and safety in the work areas. Much of the job time is spent in performing management and supervisory activities (78 percent) while 12 percent of their time is spent performing general administrative and technical order system activities. Members of this job perform an average of only 32 tasks. This is the lowest number of tasks performed, and indicates a very highly specialized job. There are no ANG or AFRES members performing this job. Tasks which best differentiate this job from others are:

conduct self-inspections or self-assessments conduct safety inspections of equipment or facilities evaluate accident or incident reports evaluate job hazards or compliance with Air Force Occupational Safety and Health (AFOSH) Program write inspection reports plan safety or security programs complete accident or incident reports investigate accidents or incidents

Three-quarters of the personnel in this job are 7-skill level, with 25 percent at the 5-skill level. The predominant paygrade is E-7. Only 33 percent of the personnel report supervising, which is slightly lower than average.

Comparison of Current Jobs to Previous Survey Findings

Results of the specialty job analysis were compared to those of the last Aircraft Electrical and Environmental Systems OSR published in 1993. With some variance in the job titles between the two studies, the tasks that personnel performed in the previous OSR are generally found in the current study. As shown in Table 5, the majority of jobs identified previously were also identified in this study. The current OSR groups several of the jobs from the previous OSR into clusters. For example, the Technical Training Instructor and the Field Training Detachment (FTD) Instructor jobs from the previous OSR are now in the Training Cluster. Conversely, the previous OSR had battery and oxygen cart maintenance clustered together, while the current study identifies them as independent jobs. The Airborne Warning and Control System (AWACS) Job, the Maintenance Scheduling Job, the Wiring Job, and the Helicopter Cluster from the previous OSR were not similar to any of the jobs or clusters identified in the current study.

Summary

Utilizing the special job-identifying techniques described at the beginning of this section, eight jobs were identified in the career ladder structure analysis. The eight jobs were directly involved in performing the full range of duties and responsibilities of the Aircraft Electrical and Environmental systems career field.

The majority of the personnel are involved in jobs that center around the flightline with almost three quarters of the personnel grouped as flightline personnel. Most job groups have similar tasks that involve inspecting, troubleshooting, removing, repairing and installing components. Current results largely follow the historical career structure with the major changes involving the deletion of the AWACS, Maintenance Scheduling, Wiring, and Helicopter jobs.

ANALYSIS OF DAFSC GROUPS

An analysis of DAFSC groups, in conjunction with the analysis of the career ladder structure, is an important part of each occupational survey. The DAFSC analysis identifies differences in tasks performed at the various skill levels. This information may then be used to evaluate how well career ladder documents, such as the AFMAN 36-2108 *Specialty Description* and the STS, reflect what career ladder personnel are actually doing in the field.

The distribution of skill-level groups across the career ladder jobs is displayed in Table 6, while Table 7 offers another perspective by displaying the average percent time spent on each duty across the skill-level groups. Both 3- and 5-skill level groups perform mostly technical

COMPARISON OF JOB GROUPS IN CURRENT STUDY TO PREVIOUS STUDY

| PERCENT OF SAMPLE | r | 53 | 17 | 1 | р | 1 | 7 | · | 1 | √ | $\overline{\nabla}$ | $\overline{\nabla}$ | $\overline{\nabla}$ |
|-------------------------|----------------|------------------------|---------------------|----------------------------------|---|-----------------------------|------------------|------------------|--------------------|----------------------------|---------------------|------------------------|--|
| 1993 STUDY (N=2,931) | NOT IDENTIFIED | FLIGHTLINE MAINTENANCE | IN-SHOP MAINTENANCE | BATTERY, OXYGEN CART MAINTENANCE | TECHNICAL TRAINING INSTRUCTOR AND FTD INSTRUCTOR | QUALITY ASSURANCE | SUPERVISOR | NOT IDENTIFIED | HELICOPTER | CROSS-UTILIZATION TRAINING | WIRING | MAINTENANCE SCHEDULING | AIRBORNE WARNING AND CONTROL SYSTEM (AWACS) |
| | I. | II. | III. | IV. | ` | VI. | VII. | VIII. | IX. | × | XI. | XII. | XIII. |
| PERCENT OF SAMPLE | 1 | . 69 | 6 | ~ | - | 1 > | 5 | ₩. | ı | ı | ı | ı | ı |
| | | | | | | TOR | | | | | | | |
| 1997 STUDY (N=1,823) | I. POWER | II. FLIGHTLINE | BACKSHOP | IV. OXYGEN | V. TRAINING | QUALITY ASSURANCE INSPECTOR | VII. SUPERVISORS | SAFETY INSPECTOR | IX. NOT IDENTIFIED | X. NOT IDENTIFIED | NOT IDENTIFIED | XII. NOT IDENTIFIED | NOT IDENTIFIED |

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DISTRIBUTION OF AFSC 2A6X6 MEMBERS ACROSS SPECIALTY JOBS (PERCENT MEMBERS RESPONDING)

| | AFRES (N=110) | ı | 88 | 2 | , | | | 9 | | 4 |
|-------------|-------------------|----------|----------------|---------------|------------|-------------|---------------------------------|-----------------|------------------|-------------|
| 2A676 | ANG (N=137) | 7 | 88 | - | ı | | · | 4 | · | S. |
| DAFSC 2A676 | ACTIVE (N=242) | • | 39 | 6 | | æ | 2 | 28 | 4 | 15 |
| | TOTAL (N=489) | | 64 | S | | 7 | 1 | 16 | 7 | 10 |
| | AFRES (N=175) | | 82 | 7 | - | • | • | ı | | 15 |
| DAFSC 2A656 | ANG (N=225) | 3 | 81 | ł | • | | • | | | 16 |
| DAFSC | ACTIVE (N=578) | - | 70 | 14 | 1 | 4 | 1 | 1 | - | ٢ |
| | TOTAL (N=978) | 1 | 75 | 80 | 1 | 3 | - | - | ı | Ш |
| 9 | AFRES (N=15) | ٢ | 73 | 13 | , | , | | ł | | ٢ |
| DAFSC 2A636 | ACTIVE (N=341) | 1 | 65 | 19 | 3 | • | | • | | 13 |
| D | TOTAL (N=356) | 1 | 65 | 19 | 2 | | • | • | • | 13 |
| - | SPECIALTY JOBS | I. POWER | II. FLIGHTLINE | III. BACKSHOP | IV. OXYGEN | V. TRAINING | VI. QUALITY ASSURANCE INSPECTOR | VII. SUPERVISOR | SAFETY INSPECTOR | NOT GROUPED |
| | SPECI | I. | 11. | III. | IV. | ۲. ۲ | т 2 | | VIII. | |
| | | | | | | | 2 | 0 | | |

AVERAGE PERCENT TIME SPENT PERFORMING DUTIES BY TOTAL DAFSC 2A6X6 GROUPS (RELATIVE PERCENT OF JOB TIME)

`

| DUTIES | DAFSC | DAFSC | DAFSC |
|--|----------------------|---------|-----------------------------|
| | 2A636 | 2A656 | 2A676 |
| | (N=356) | (N=978) | (N=489) |
| PERFORMING AIRCRAFT ELECTRICAL AND DISTRIBUTION SYSTEMS MAINTAINING ENGINE START AND IGNITION CONTROL SYSTEMS MAINTAINING LANDING GEAR SYSTEMS MAINTAINING FUEL AND WATER INJECTION SYSTEMS MAINTAINING BATTERLES MAINTAINING BATTERLES MAINTAINING BATTERLES MAINTAINING BATTERLES MAINTAINING AIRCRAFT SAND NARNING SYSTEMS MAINTAINING AIRCRAFT PRESING SYSTEMS MAINTAINING AIRCRAFT PRESING SYSTEMS MAINTAINING AIRCRAFT AND SUFFICIENS AND ASSOCIATED EQUIPMENT MAINTAINING AIRCRAFT AND SUFFICIAL ENVIRON SYSTEMS MAINTAINING AIRCRAFT AND SUFFICIAL SYSTEMS MAINTAINING AIRCRAFT AND SUFFICIALI | 12-924207-245-747*-5 | 00-0 | アアーサー* ここここサーこのこす* らこすれらううの |

* Denotes less than 1 percent

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

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duties, with 5-skill level personnel also performing some supervisory and training duties. Sevenskill level members report a large amount of their job time is spent on supervisory, training, and administrative duties (see Table 7, Duty U). This indicates a career ladder with a high level of technical task performance for all personnel up to and including 7-skill level personnel.

Skill-Level Descriptions

DAFSC 2A636. The 356 airmen at the 3-skill level (representing 20 percent of the survey sample), perform an average of 123 tasks. This low number is expected because the personnel are primarily in their first enlistment and doing a small number of technical tasks. Sixty-five percent of the 3-skill level are grouped into the Flightline Cluster (Table 6). Tables 7-10 show average percent time spent performing duties by skill level. Table 7 includes the entire sample. Table 8 is broken down into active duty personnel only, while Tables 9 and 10 are broken down into ANG and AFRES respectively. As shown in Table 7, 34 percent of the respondents' time is spent performing fundamental maintenance, maintaining aircraft power and distribution systems, and maintaining oxygen systems. Their job focus is shown in Tables 11-13, which lists representative tasks performed by the 3-skill level incumbents for the total sample, active duty, Very few differences were exhibited between the two separate and AFRES respondents. Most tasks listed relate to Duty A, Performing Aircraft Electrical and components. Environmental Fundamental Maintenance. Very few respondents reported performing supervisory duties. The ANG did not have any respondents at the 3-skill level.

DAFSC 2A656. The 978 airmen in the 5-skill level (54 percent of the survey sample) perform an average of 162 tasks. Personnel are doing more tasks as they get more proficient in the tasks they learn at the 3-skill level. As with 3-skill level personnel, the largest percentages of 5-skill level incumbents work in either the Flightline or Backshop clusters. As shown in Table 7, 20 percent of the respondents' time is spent performing electrical and environmental fundamental maintenance, and maintaining aircraft power and distribution systems. Again, Tables 8-10 show similar information broken down by components. Tables 14-17 indicate that the time spent on tasks is very similar across Active Duty, ANG and AFRES members. These tables indicate that the 5-skill level members are performing a wide variety of tasks, which is expected at this level. Personnel at this level are performing mostly technical tasks such as removing and installing components and inspecting and troubleshooting components. Tables 18-20 show those tasks which best differentiate the 3- and 5-skill levels.

DAFSC 2A676. The 489 NCOs in the 7-skill level (27 percent of the survey sample) perform an average of 174 tasks. Table 7 outlines the duties performed by the total sample 7-skill level, while Tables 8-10 show this same information broken down by component status. As Table 6 demonstrates, unlike their junior counterparts at the 3- and 5-skill levels, 16 percent of the total sample were grouped into the Supervisor Cluster. Active duty reported 28 percent of their personnel at the 7-skill level were in the Supervisor Cluster, with only 4 percent of the ANG and

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AVERAGE PERCENT TIME SPENT PERFORMING DUTIES BY ACTIVE DUTY DAFSC 2A6X6 GROUPS (RELATIVE PERCENT OF JOB TIME)

* Denotes less than 1 percent

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

AVERAGE PERCENT TIME SPENT PERFORMING DUTIES BY ANG DAFSC 2A6X6 GROUPS (RELATIVE PERCENT OF JOB TIME)

| DU | DUTIES | DAFSC 2A656 (N=225) | DAFSC 2A676 (N=137) |
|---|---|---------------------------|---------------------------|
| <pre><multiplicelee< pre=""></multiplicelee<></pre> | PERFORMING AIRCRAFT ELECTRICAL AND ENVIRONMENTAL FUNDAMENTAL MAINTAINING AIRCRAFT ELECTRICAL AND DISTRIBUTION SYSTEMS MAINTAINING ENGINE START AND JGNITION CONTROL SYSTEMS MAINTAINING ENGINE START AND JGNITION CONTROL SYSTEMS MAINTAINING LANDING GEAR SYSTEMS MAINTAINING FUEL AND WATER INJECTION SYSTEMS MAINTAINING FUEL AND WATER INJECTION SYSTEMS MAINTAINING FUEL AND WATER INJECTION SYSTEMS MAINTAINING BUTALES MAINTAINING RELEAND WATER INJECTION SYSTEMS MAINTAINING BUTARES MAINTAINING BUTARES MAINTAINING BUTTRIES MAINTAINING ANTI-ICING SYSTEMS MAINTAINING ANTI-ICING SYSTEMS MAINTAIN | 22-0000080004000*-4 | 00-00400000840*004040m8 |

* Denotes less than 1 percent

NOTE: Columns may not add up to 100 percent due to rounding
AVERAGE PERCENT TIME SPENT PERFORMING DUTIES BY AFRES DAFSC 2A6X6 GROUPS (RELATIVE PERCENT OF JOB TIME)

| DUTIES | DAFSC 2A636 (N=15) | DAFSC 2A656 (N=175) | DAFSC 2A676 (N=110) |
|--|---------------------------|--|---------------------------|
| FERFORMING AIRCRAFT ELECTRICAL AND ENVIRONMENTAL FUNDAMENTAL MAINTENANCE MAINTAINING AIRCRAFT POWER AND DISTRIBUTION SYSTEMS MAINTAINING ENGINE START AND DISTRIBUTION SYSTEMS MAINTAINING LANDING GEAR SYSTEMS MAINTAINING LANDING GAR SYSTEMS MAINTAINING LANDING GAR SYSTEMS MAINTAINING LUBL AND WATER INJECTION SYSTEMS MAINTAINING FUEL AND WATER INJECTION SYSTEMS MAINTAINING BATTERIES MAINTAINING BATTERIES MAINTAINING BATTERIES MAINTAINING BATTERIES MAINTAINING LIGHTION AND WARNING SYSTEMS MAINTAINING BATTERIES MAINTAINING BATTERIES MAINTAINING IRTE AND OVERHEAT WARNING SYSTEMS MAINTAINING IRTER AND OVERHEAT WARNING SYSTEMS MAINTAINING ANTI-ICING SYSTEMS MAINTAINING ANTI | 11-21-21-24のの80の2の5-7の5*4 | 19-90-4433773773773773773773773773773773773773 | 80-62-32302772~ 7260S-2S |
| | | | |

* Denotes less than 1 percent

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

REPRESENTATIVE TASKS PERFORMED BY ALL DAFSC 2A636 PERSONNEL

| | | PERCENT MEMBERS PERFORMING |
|--------------|--|----------------------------------|
| TASK | S | (N=356) |
| A17 | Crimp splices or terminals to wires | 92 |
| A4 | Assemble or disassemble connector plugs | 85 |
| A26 | Inspect wire bundles or harnesses | 79 |
| K193 | Perform operational checks of exterior lighting | 79 |
| A11 | Clean connector plugs | 77 |
| K194 | Perform operational checks of interior lighting | 76 |
| B54 | Perform operational checks of AC power systems | 74 |
| B59 | Remove or install AC power components | 73 |
| B56 | Perform operational checks of DC power systems | 71 |
| K196 | Remove or install interior lighting components | 71 |
| K195 | Remove or install exterior lighting components | 71 |
| K189 | Isolate exterior lighting malfunctions | 71 |
| R362 | Perform operational checks of air-conditioning systems | 70 |
| A32 | Perform time compliance technical orders (TCTOs) modifications | 70 |
| B61 | Remove or install DC power components | 70 |
| A24 | Inspect electrical bonds or grounds | 69 |
| D96 | Perform operational checks of anti-skid systems | 68 |
| B49 | Isolate AC power malfunctions | 68 |
| K190 | Isolate interior lighting malfunctions | 68 |
| R366 | Remove or install air-conditioning system components | 67 |
| J178 | Perform operational checks of fire and overheat warning systems | 67 |
| B43 | Inspect AC power components | 67 |
| D102 | Remove or install anti-skid components | 66 |
| K187 | Inspect exterior lighting components | 66 |
| B51 | Isolate DC power malfunctions | 66 |
| K188 | Inspect interior lighting components | 65 |
| R359 K183 | Perform leakage checks of air-conditioning systems | 64 |
| B45 | Assemble or disassemble exterior lighting assemblies | 64 |
| P323 | Inspect DC power components | 64 |
| P316 | Remove or install bleed air system components Perform operational checks of bleed air systems | 63 |
| D84 | Inspect anti-skid components | 63 |
| R352 | Inspect air-conditioning systems | 63 |
| R355 | Isolate air-conditioning system malfunctions | 62 |
| P312 | Perform leakage checks of bleed air systems | 62 |
| B58 | Perform operational checks of external power systems | 62 62 |
| D90 | Isolate anti-skid malfunctions | 62 62 |
| O276 | Perform leakage checks of cabin or cargo pressurization systems | 60 |
| P297 | Inspect bleed air systems | 60 |
| | | 00 |

REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2A636 PERSONNEL

| | | PERCENT MEMBERS PERFORMING |
|-------|---|----------------------------------|
| TASKS | | (N=341) |
| A17 | Crimp splices or terminals to wires | 92 |
| A4 | Assemble or disassemble connector plugs | 85 |
| K193 | Perform operational checks of exterior lighting | 79 |
| A26 | Inspect wire bundles or harnesses | 78 |
| A11 | Clean connector plugs | 76 |
| K194 | Perform operational checks of interior lighting | 76 |
| B59 | Remove or install AC power components | 73 |
| B54 | Perform operational checks of AC power systems | 73 |
| B56 | Perform operational checks of DC power systems | 71 |
| K196 | Remove or install interior lighting components | 71 |
| K195 | Remove or install exterior lighting components | 71 |
| A32 | Perform time compliance technical orders (TCTOs) modifications | 70 |
| B61 | Remove or install DC power components | 70 |
| K189 | Isolate exterior lighting malfunctions | 70 |
| R362 | Perform operational checks of air-conditioning systems | 69 |
| A24 | Inspect electrical bonds or grounds | 69 |
| D96 | Perform operational checks of anti-skid systems | 68 |
| K190 | Isolate interior lighting malfunctions | 68 |
| R366 | Remove or install air-conditioning system components | 67 |
| B49 | Isolate AC power malfunctions | 67 |
| J178 | Perform operational checks of fire and overheat warning systems | 67 |
| D102 | Remove or install anti-skid components | 66 |
| B43 | Inspect AC power components | 66 |
| K187 | Inspect exterior lighting components | 65 |
| K188 | Inspect interior lighting components | 65 |
| B51 | Isolate DC power malfunctions | 65 |
| R359 | Perform leakage checks of air-conditioning systems | 64 |
| P316 | Perform operational checks of bleed air systems | 63 |
| B45 | Inspect DC power components | 63 |
| K183 | Assemble or disassemble exterior lighting assemblies | 63 |
| P323 | Remove or install bleed air system components | 62 |
| R355 | Isolate air-conditioning system malfunctions | 62 |
| P312 | Perform leakage checks of bleed air systems | 62 |
| D84 | Inspect anti-skid components | 62 |
| B58 | Perform operational checks of external power systems | 62 |
| D90 | Isolate anti-skid malfunctions | 62 |
| R352 | Inspect air-conditioning systems | 61 |
| O276 | Perform leakage checks of cabin or cargo pressurization systems | 60 |
| O279 | Perform operational checks of cabin or cargo pressurization systems | 60 |

REPRESENTATIVE TASKS PERFORMED BY RESERVE DAFSC 2A636 PERSONNEL

| | | PERCENT MEMBERS PERFORMING |
|--------------|--|----------------------------------|
| TASK | S | (N=15) |
| A 17 | Crime enliges on terminals to minut | |
| A17 B54 | Crimp splices or terminals to wires | 93 |
| B34 B49 | Perform operational checks of AC power systems | 87 |
| | Isolate AC power malfunctions | 87 |
| K183 | Assemble or disassemble exterior lighting assemblies | 87 |
| A16 | Clean test equipment | 87 |
| A26 | Inspect wire bundles or harnesses | 87 |
| R362 | Perform operational checks of air-conditioning systems | 87 |
| K193 | Perform operational checks of exterior lighting | 87 |
| P323 | Remove or install bleed air system components | 87 |
| K189 | Isolate exterior lighting malfunctions | 87 |
| A11 | Clean connector plugs | 87 |
| B56 | Perform operational checks of DC power systems | 80 |
| B59 H156 | Remove or install AC power components Clean batteries | 80 |
| A4 | | 80 |
| B61 | Assemble or disassemble connector plugs | 80 |
| B51 | Remove or install DC power components Isolate DC power malfunctions | 80 |
| K184 | | 80 |
| K184 K196 | Assemble or disassemble interior lighting assemblies | 80 |
| R352 | Remove or install interior lighting components Inspect air-conditioning systems | 80 |
| K352 K194 | | 80 |
| K194 K195 | Perform operational checks of interior lighting | 80 |
| A29 | Remove or install exterior lighting components Perform corrosion control | 80 |
| P297 | | 80 |
| N257 | Inspect bleed air systems Purge aircraft LOX converters | 80 |
| P304 | Isolate bleed air system malfunctions | 80 |
| B43 | Inspect AC power components | 80 |
| K187 | Inspect exterior lighting components | 80 |
| B45 | Inspect DC power components | 80 |
| J176 | Inspect fire and overheat detection circuit components | 80 |
| B41 | Bench check DC power components | 80 |
| H163 | Perform capacitance tests and service batteries | 73 |
| R366 | Remove or install air-conditioning system components | 73 |
| A24 | Inspect electrical bonds or grounds | 73 |
| K185 | Bench check exterior lighting components | 73 |
| R359 | Perform leakage checks of air-conditioning systems | 73 |
| R355 | Isolate air-conditioning system malfunctions | 73 |
| I171 | Remove or install fire or overheat system components | 73 |
| 0279 | Perform operational checks of cabin or cargo pressurization systems | 73 |
| 0217 | a storm operational encers of caom of cargo pressurization systems | 73 |

REPRESENTATIVE TASKS PERFORMED BY ALL DAFSC 2A656 PERSONNEL

| TASKS | | PERCENT MEMBERS PERFORMING (N=978) |
|--------|---|---|
| TASKS | | |
| A17 | Crimp splices or terminals to wires | 90 |
| A4 | Assemble or disassemble connector plugs | 86 |
| A11 | Clean connector plugs | 83 |
| K193 | Perform operational checks of exterior lighting | 82 |
| A26 | Inspect wire bundles or harnesses | 81 |
| K194 | Perform operational checks of interior lighting | 80 |
| B54 | Perform operational checks of AC power systems | 78 |
| B56 | Perform operational checks of DC power systems | 77 |
| K195 | Remove or install exterior lighting components | 76 |
| B59 | Remove or install AC power components | 76 |
| K196 | Remove or install interior lighting components | 76 |
| K187 | Inspect exterior lighting components | 76 |
| K189 | Isolate exterior lighting malfunctions | 76 |
| B43 | Inspect AC power components | 75 |
| J178 | Perform operational checks of fire and overheat warning systems | 75 |
| D84 | Inspect anti-skid components | 75 |
| R362 | Perform operational checks of air-conditioning systems | 74 |
| D96 | Perform operational checks of anti-skid systems | 74 |
| K188 | Inspect interior lighting components | 74 |
| K190 | Isolate interior lighting malfunctions | 74 |
| B61 | Remove or install DC power components | 74 |
| A24 | Inspect electrical bonds or grounds | 73 |
| R366 | Remove or install air-conditioning system components | 72 |
| A32 | Perform time compliance technical orders (TCTOs) modifications | 72 |
| R352 | Inspect air-conditioning systems | 72 |
| B49 | Isolate AC power malfunctions | 72 |
| B45 | Inspect DC power components | 72 |
| R359 | Perform leakage checks of air-conditioning systems | 71 |
| D102 | Remove or install anti-skid components | 70 |
| D90 | Isolate anti-skid malfunctions | 70 |
| J176 | Inspect fire and overheat detection circuit components | 70 |
| B51 | Isolate DC power malfunctions | 70 |
| J177 | Isolate fire and overheat detection circuit malfunctions | 70 |
| R355 | Isolate air-conditioning system malfunctions | 69 |
| K183 | Assemble or disassemble exterior lighting assemblies | 68 |
| B58 | Perform operational checks of external power systems | 68 |
| · I171 | Remove or install fire or overheat system components | 68 |
| P323 | Remove or install bleed air system components | 67 |
| P297 | Inspect bleed air systems | 67 |

REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2A656 PERSONNEL

| TASK | S | PERCENT MEMBERS PERFORMING (N=578) |
|--------------|---|---|
| A 17 | | |
| A17 | Crimp splices or terminals to wires | 87 |
| A4 | Assemble or disassemble connector plugs | 82 |
| A11 | Clean connector plugs | 81 |
| A26 | Inspect wire bundles or harnesses | 77 |
| K193 | Perform operational checks of exterior lighting | 77 |
| K194 | Perform operational checks of interior lighting | 75 |
| B54 | Perform operational checks of AC power systems | 73 |
| B56 | Perform operational checks of DC power systems | 73 |
| B43 | Inspect AC power components | 71 |
| K189 | Isolate exterior lighting malfunctions | 71 |
| K187 | Inspect exterior lighting components | 71 |
| A32 | Perform time compliance technical orders (TCTOs) modifications | 70 |
| B59 | Remove or install AC power components | 70 |
| B49 | Isolate AC power malfunctions | 70 |
| K195 | Remove or install exterior lighting components | 70 |
| J178 | Perform operational checks of fire and overheat warning systems | 70 |
| K196 | Remove or install interior lighting components | 70 |
| K190 | Isolate interior lighting malfunctions | 70 |
| K188 | Inspect interior lighting components | 69 |
| B61 | Remove or install DC power components | 69 |
| B45 | Inspect DC power components | 68 |
| B51 | Isolate DC power malfunctions | 68 |
| R362 | Perform operational checks of air-conditioning systems | 67 |
| A24 B58 | Inspect electrical bonds or grounds | 67 |
| D84 | Perform operational checks of external power systems | 67 |
| | Inspect anti-skid components | 67 |
| J177 D266 | Isolate fire and overheat detection circuit malfunctions | 67 |
| R366 | Remove or install air-conditioning system components | 66 |
| R352 | Inspect air-conditioning systems | 66 |
| D96 | Perform operational checks of anti-skid systems | 66 |
| B53 | Isolate external power system malfunctions | 66 |
| P323 | Remove or install bleed air system components | 65 |
| R355 | Isolate air-conditioning system malfunctions | 65 |
| R359 | Perform leakage checks of air-conditioning systems | 65 |
| P304 | Isolate bleed air system malfunctions | 64 |
| D102 | Remove or install anti-skid components | 64 |
| D90 | Isolate anti-skid malfunctions | 64 |
| J176 D99 | Inspect fire and overheat detection circuit components | 64 |
| D99 | Perform operational checks of landing gear control or warning systems | 64 |

REPRESENTATIVE TASKS PERFORMED BY GUARD DAFSC 2A656 PERSONNEL

| | | PERCENT MEMBERS PERFORMING (N=225) |
|-------|---|---|
| TASKS | | (1(223) |
| A17 | Crimp splices or terminals to wires | 92 |
| A4 | Assemble or disassemble connector plugs | 89 |
| A11 | Clean connector plugs | 89 |
| A26 | Inspect wire bundles or harnesses | 88 |
| D96 | Perform operational checks of anti-skid systems | 88 |
| K193 | Perform operational checks of exterior lighting | 88 |
| K195 | Remove or install exterior lighting components | 88 |
| B54 | Perform operational checks of AC power systems | 87 |
| K194 | Perform operational checks of interior lighting | 87 |
| K183 | Assemble or disassemble exterior lighting assemblies | 87 |
| B56 | Perform operational checks of DC power systems | 86 |
| H157 | Inspect batteries | 85 |
| D84 | Inspect anti-skid components | 85 |
| K196 | Remove or install interior lighting components | 85 |
| B59 | Remove or install AC power components | 84 |
| R352 | Inspect air-conditioning systems | 83 |
| K189 | Isolate exterior lighting malfunctions | 83 |
| K184 | Assemble or disassemble interior lighting assemblies | 83 |
| A24 | Inspect electrical bonds or grounds | 82 |
| R362 | Perform operational checks of air-conditioning systems | 82 |
| K187 | Inspect exterior lighting components | 82 |
| K188 | Inspect interior lighting components | 81 |
| B61 | Remove or install DC power components | 81 |
| K190 | Isolate interior lighting malfunctions | 81 |
| H156 | Clean batteries | 80 |
| R366 | Remove or install air-conditioning system components | 80 |
| J178 | Perform operational checks of fire and overheat warning systems | 80 |
| D90 | Isolate anti-skid malfunctions | 80 |
| B43 | Inspect AC power components | 79 |
| R359 | Perform leakage checks of air-conditioning systems | 78 |
| A32 | Perform time compliance technical orders (TCTOs) modifications | 78 |
| D102 | Remove or install anti-skid components | 78 |
| J176 | Inspect fire and overheat detection circuit components | 78 |
| O276 | Perform leakage checks of cabin or cargo pressurization systems | 76 |
| B49 | Isolate AC power malfunctions | 76 |
| B45 | Inspect DC power components | 76 |
| P297 | Inspect bleed air systems | 75 |
| B51 | Isolate DC power malfunctions | 75 |
| H163 | Perform capacitance tests and service batteries | 74 |

REPRESENTATIVE TASKS PERFORMED BY RESERVE DAFSC 2A656 PERSONNEL

| TASK | S | PERCENT MEMBERS PERFORMING (N=175) |
|--------------|---|---|
| A 17 | Crimp galiage or terminale to wise | 0.5 |
| A17 A4 | Crimp splices or terminals to wires | 95 |
| K193 | Assemble or disassemble connector plugs | 93 |
| | Perform operational checks of exterior lighting | 89 |
| K194 | Perform operational checks of interior lighting | 87 |
| A26 | Inspect wire bundles or harnesses | 85 |
| D84 | Inspect anti-skid components | 85 |
| K196 | Remove or install interior lighting components | 84 |
| K187 | Inspect exterior lighting components | 84 |
| K195 | Remove or install exterior lighting components | 84 |
| B54 | Perform operational checks of AC power systems | 83 |
| K189 | Isolate exterior lighting malfunctions | 83 |
| D96 | Perform operational checks of anti-skid systems | 83 |
| J178 | Perform operational checks of fire and overheat warning systems | 83 |
| A11 R362 | Clean connector plugs | 82 |
| R302 B59 | Perform operational checks of air-conditioning systems | 82 |
| R366 | Remove or install AC power components | 82 |
| D102 | Remove or install air-conditioning system components | 82 |
| B43 | Remove or install anti-skid components | 82 |
| K188 | Inspect AC power components | 81 |
| | Inspect interior lighting components | 81 |
| B61 | Remove or install DC power components | 81 |
| B56 | Perform operational checks of DC power systems | 80 |
| A24 | Inspect electrical bonds or grounds | 79 |
| K190 | Isolate interior lighting malfunctions | 79 |
| R359 | Perform leakage checks of air-conditioning systems | 79 |
| J176 | Inspect fire and overheat detection circuit components | 79 |
| K183 R352 | Assemble or disassemble exterior lighting assemblies | 78 |
| | Inspect air-conditioning systems | 78 |
| D90 | Isolate anti-skid malfunctions | 78 |
| K184 | Assemble or disassemble interior lighting assemblies | 77 |
| B45 | Inspect DC power components | 77 |
| R355 | Isolate air-conditioning system malfunctions | 77 |
| I170 | Perform operational checks of master caution warning systems | 77 |
| I171 | Remove or install fire or overheat system components | 77 |
| B49 | Isolate AC power malfunctions | 76 |
| J177 | Isolate fire and overheat detection circuit malfunctions | 76 |
| B58 | Perform operational checks of external power systems | 74 |
| I167 | Inspect master caution warning system components | 74 |
| B51 | Isolate DC power malfunctions | 74 |

TASKS WHICH BEST DIFFERENTIATE BETWEEN ALL DAFSC 2A636 AND DAFSC 2A656 PERSONNEL (PERCENT MEMBERS PERFORMING)

| Conduct OJT 15 Supervise military personnel 3 Conduct OJT 15 Supervise military personnel 3 Clear Red-X conditions 2 Counsel subordinates concerning personal matters 3 Demonstrate how to locate technical information 13 Demonstrate how to locate technical information 13 Demonstrate over supervisory performance feedback sessions 13 Demonstrate over supervisory performance feedback sessions 14 Valuate progress of traines 3 Assign personnel to work areas or duty positions 11 Maintain training records or files 10 Conduct supervisory performance standards 3 Evaluate personnel to compliance with maintenance control 1 Evaluate personnel for compliance with maintenance control 1 Evaluate personnel for compliance with maintenance control 1 Evaluate personnel for compliance with maintenance control 1 Conduct self-inspections or self-assessments 2 Conduct self-inspections or self-assessments 2 Conduct self-inspections or self-assessments 2 Conduct self-inspections or self-assessments | | | DAFSC 2A636 | DAFSC 3A656 | |
|--|-------|---|----------------|----------------|-----|
| Conduct OJT15Supervise military personnel2Clear Red-X conditions1Clear Red-X conditions1Clear Red-X conditions1Counsel subordinates concerning personal matters2Determine or establish work assignments or priorities1Demonstrate how to locate technical information13Demonstrate operation of equipment17Demonstrate operation11Demonstrate operation10Demonstrate operation10Demonstrate personnel for compliance with maintenance control11Evaluate personnel for compliance with maintenance control2Evaluate personnel for compliance with maintenance2Conduct safet inspections or self-assessments2Conduct safet inspections | TASKS | | (0CEN) | (N=9/8) | |
| Supervise military personnel3Clear Red-X conditions2Clear Red-X conditions1Clear Red-X conditions1Counsel subordinates concerning personal matters1Demonstrate how to locate technical information13Demonstrate how to locate technical information17Demonstrate progress of trainees13Saign personnel to work areas or duty positions3Maintain training records or files10Coordinate aircraft maintenance control10Evaluate personnel for compliance with meintenance control2Evaluate personnel for compliance with meintenance3Conduct self-inspections or self-assessments2Conduct self-inspections or self-assessments2Conduct self-inspections or self-assessments56Conduct self-inspections or self-assessments7 <td>V555</td> <td>Conduct OJT</td> <td>15</td> <td>49</td> <td>-35</td> | V555 | Conduct OJT | 15 | 49 | -35 |
| Clear Red-X conditions2Counsel subordinates concerning personal matters5Determine or establish work assignments or priorities13Determine or establish work assignments or priorities13Demonstrate how to locate technical information17Demonstrate operation of equipment17Conduct supervisory performance feedback sessions17Evaluate progress of trainees3Assign personnel to work areas or duty positions3Maintain training records of files10Coordinate aircraft maintenance activities with maintenance control10Evaluate personnel for compliance with performance standards2Evaluate personnel for compliance with maintenance control3Bevaluate personnel for compliance with maintenance control5Coordinate aircraft maintenance activities5Maintain training needs3Inspect personnel for compliance with military standards5Conduct safety inspections or self-assessments5Conduct safety inspections of equipment or facilities5Write performance reports or supervisory appraisals5Conduct safety inspections or enductions56Fetablish berformance standards5Conduct safety inspections or enductions56Conduct safety inspections or enductions56 </td <td>U543</td> <td>Supervise military personnel</td> <td>ŝ</td> <td>37</td> <td>-34</td> | U543 | Supervise military personnel | ŝ | 37 | -34 |
| Counsel subordinates concerning personal matters1Determine or establish work assignments or priorities5Determine or establish work assignments or priorities13Demonstrate how to locate technical information17Demonstrate operation of equipment17Conduct supervisory performance feedback sessions17Evaluate progress of trainees3Assign personnel to work areas or duty positions3Maintain training records or files10Coordinate aircraft maintenance activities with maintenance control10Evaluate personnel for compliance with performance standards5Evaluate personnel for compliance with performance standards5Conduct supervisory appraisals56Conduct supervisory appraisals56Conduct supervisory appraisals56Conduct supervisory or entertions56Farabilich performance standards for subordinates56 | Y621 | Clear Red-X conditions | 2 | 34 | -32 |
| Determine or establish work assignments or prioritiesDemonstrate how to locate technical informationDemonstrate how to locate technical informationDemonstrate operation of equipmentConduct supervisory performance feedback sessionsEvaluate progress of traineesAssign personnel to work areas or duty positionsMaintain training records or filesCoordinate aircraft maintenance activities with maintenance controlEvaluate personnel for compliance with performance standardsEvaluate personnel for compliance with military standardsEvaluate personnel for compliance with military standardsConduct self-inspections or self-assessmentsConduct safety inspections of equipment or facilitiesWrite performance reports or supervisory appraisalsConduct supervisory appraisalsConduct supervisory appraisalsConduct supervisory appraisalsConduct supervisory or ientations for submotinatesS66S67S68 <td< td=""><td>U485</td><td>Counsel subordinates concerning personal matters</td><td>1</td><td>31</td><td>-30</td></td<> | U485 | Counsel subordinates concerning personal matters | 1 | 31 | -30 |
| Demonstrate how to locate technical information13Demonstrate operation of equipment17Demonstrate operation of equipment17Conduct supervisory performance feedback sessions1Evaluate progress of trainees3Assign personnel to work areas or duty positions3Maintain training records or files10Coordinate aircraft maintenance activities with maintenance control10Evaluate personnel for compliance with performance standards2Evaluate personnel for compliance with military standards3Conduct self-inspections or self-assessments3Conduct self-inspections or self-assessments56Write performance reports or supervisory appraisals56Conduct supervisory orientations for eacly assigned personnel56Fabilish nerformance standards for subordinates56 | U488 | Determine or establish work assignments or priorities | 5 | 34 | -29 |
| Demonstrate operation of equipment17Conduct supervisory performance feedback sessions1Evaluate progress of trainees3Assign personnel to work areas or duty positions3Maintain training records or files3Coordinate aircraft maintenance activities with maintenance control10Evaluate personnel for compliance with performance standards10Evaluate personnel for compliance with miltary standards2Inspect personnel for compliance with military standards3Conduct self-inspections or self-assessments3Conduct self-inspections of equipment or facilities56Write performance reports or supervisory appraisals56Conduct supervisory orientations for newly assigned personnel56 | V558 | Demonstrate how to locate technical information | 13 | 42 | -29 |
| Conduct supervisory performance feedback sessions1Evaluate progress of trainees3Assign personnel to work areas or duty positions3Assign personnel to work areas or duty positions3Maintain training records or files10Coordinate aircraft maintenance activities with maintenance control6Evaluate personnel for compliance with performance standards1Evaluate personnel for compliance with military standards2Inspect personnel for compliance with military standards3Conduct self-inspections or self-assessments56Write performance reports or supervisory appraisals56Conduct supervisory orientations for newly assigned personnel56Fatabilish nerformance standards for subbridinates56 | V559 | Demonstrate operation of equipment | 17 | 43 | -26 |
| Evaluate progress of trainces3Assign personnel to work areas or duty positions3Maintain training records or files10Coordinate aircraft maintenance activities with maintenance control10Evaluate personnel for compliance with performance standards2Evaluate personnel for compliance with military standards3Conduct self-inspections or self-assessments3Conduct safety inspections of equipment or facilities56Write performance reports or supervisory appraisals56Conduct supervisory orientations for newly assigned personnel56Fatablish nerformance standards for subordinates56 | U483 | Conduct supervisory performance feedback sessions | 1 | 27 | -26 |
| Assign personnel to work areas or duty positions3Maintain training records or files10Coordinate aircraft maintenance activities with maintenance control6Evaluate personnel for compliance with performance standards1Evaluate personnel for compliance with military standards2Inspect personnel for compliance with military standards3Conduct self-inspections or self-assessments7Conduct self-inspections or self-assessments56Write performance reports or supervisory appraisals56Conduct supervisory orientations for newly assigned personnel56 | V568 | Evaluate progress of trainees | ŝ | 28 | -25 |
| Maintain training records or files10Coordinate aircraft maintenance activities with maintenance control6Evaluate personnel for compliance with performance standards1Evaluate personnel for compliance with military standards2Inspect personnel for compliance with military standards3Conduct self-inspections or self-assessments3Conduct safety inspections of equipment or facilities9Write performance reports or supervisory appraisals56Conduct supervisory orientations for newly assigned personnel56 | U475 | Assign personnel to work areas or duty positions | ŝ | 28 | -25 |
| Coordinate aircraft maintenance activities with maintenance control6Evaluate personnel for compliance with performance standards1Evaluate personnel for compliance with military standards2Inspect personnel for compliance with military standards3Conduct self-inspections or self-assessments7Conduct safety inspections of equipment or facilities9Write performance reports or supervisory appraisals56Conduct supervisory orientations for newly assigned personnel56 | V573 | Maintain training records or files | 10 | 34 | -24 |
| Evaluate personnel for compliance with performance standards1Evaluate personnel to determine training needs2Inspect personnel for compliance with military standards3Conduct self-inspections or self-assessments7Conduct safety inspections of equipment or facilities9Write performance reports or supervisory appraisals.56Conduct supervisory orientations for newly assigned personnel.12 | Y622 | Coordinate aircraft maintenance activities with maintenance control | 9 | 29 | -23 |
| Evaluate personnel to determine training needs2Inspect personnel for compliance with military standards3Conduct self-inspections or self-assessments7Conduct safety inspections of equipment or facilities9Write performance reports or supervisory appraisals56Conduct supervisory orientations for newly assigned personnel.56Fatablish performance standards for subordinates.12 | U518 | Evaluate personnel for compliance with performance standards | 1 | 23 | -22 |
| Inspect personnel for compliance with military standards Conduct self-inspections or self-assessments Conduct safety inspections of equipment or facilities Write performance reports or supervisory appraisals Conduct supervisory orientations for newly assigned personnel Establish performance standards for subordinates | V567 | Evaluate personnel to determine training needs | 7 | 24 | -22 |
| Conduct self-inspections or self-assessments Conduct safety inspections of equipment or facilities Write performance reports or supervisory appraisals Conduct supervisory orientations for newly assigned personnel Establish performance standards for subordinates | U528 | Inspect personnel for compliance with military standards | ę | 24 | -21 |
| Conduct safety inspections of equipment or facilities Write performance reports or supervisory appraisals Conduct supervisory orientations for newly assigned personnel Establish performance standards for subordinates | U480 | Conduct self-inspections or self-assessments | 7 | 28 | -21 |
| Write performance reports or supervisory appraisals Conduct supervisory orientations for newly assigned personnel Establish performance standards for subordinates | U479 | Conduct safety inspections of equipment or facilities | 6 | 29 | -20 |
| Conduct supervisory orientations for newly assigned personnel Establish nerformance standards for subordinates | U546 | Write performance reports or supervisory appraisals | .56 | 20 | -20 |
| Establish nerformance standards for subordinates | U482 | Conduct supervisory orientations for newly assigned personnel | .56 | 20 | -20 |
| | U506 | Establish performance standards for subordinates | .12 | 20 | -19 |

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TABLE 19

TASKS WHICH BEST DIFFERENTIATE BETWEEN ACTIVE DUTY DAFSC 2A636 AND DAFSC 2A656 PERSONNEL (PERCENT MEMBERS PERFORMING)

-

| | | DAFSC | DAFSC | |
|-------|---|---------|---------|------|
| | | 2A636 | 2A656 | |
| TASKS | S | (N=341) | (N=578) | DIFF |
| | | - | | |
| U485 | Counsel subordinates concerning personal matters | | 45 | -44 |
| U543 | Supervise military personnel | | 46 | 4 |
| U483 | Conduct supervisory performance feedback sessions | | 41 | -40 |
| V555 | Conduct OJT | 14 | 54 | -40 |
| U488 | Determine or establish work assignments or priorities | S. | 43 | -38 |
| Y621 | Clear Red-X conditions | 2 | 39 | -37 |
| U546 | Write performance reports or supervisory appraisals | 1 | 33 | -32 |
| V558 | Demonstrate how to locate technical information | 13 | 45 | -32 |
| V559 | Demonstrate operation of equipment | 16 | 48 | -32 |
| U475 | Assign personnel to work areas or duty positions | ę | 34 | -31 |
| U518 | Evaluate personnel for compliance with military standards | 7 | 33 | -31 |
| V568 | Evaluate progress of trainees | ę | 34 | -31 |
| U528 | Inspect personnel for compliance with military standards | ę | 33 | -30 |
| V573 | Maintain training records or files | 10 | 40 | -30 |
| U506 | Establish performance standards for subordinates | 1 | 30 | -29 |
| U482 | Conduct supervisory orientations for newly assigned personnel | 1 | 28 | -27 |
| V567 | Evaluate personnel to determine training needs | 1 | 28 | -27 |
| U479 | Conduct safety inspections of equipment or facilities | 6 | 32 | -23 |
| U480 | Conduct self-inspection or self-assessments | 7 | 30 | -23 |
| U519 | Evaluate personnel for promotion, demotion, reclassification, or special awards | 1 | 22 | -21 |
| U491 | Develop or establish work methods or procedures | 5 | 26 | -21 |

TASKS WHICH BEST DIFFERENTIATE BETWEEN RESERVE 2A636 AND RESERVE 2A656 PERSONNEL (PERCENT MEMBERS PERFORMING)

| TASKS | | RESERVE 2A636 (N=15) | RESERVE 2A656 (N=175) | DIFF |
|-------|--|----------------------------|-----------------------------|------|
| | | | | |
| A16 | Clean test equipment | 87 | 44 | 43 |
| B41 | Bench check DC power components | 73 | 35 | 38 |
| N259 | Purge LOX servicing carts | 67 | 32 | 35 |
| A9 | Bench check motors | 73 | 39 | 34 |
| A35 | Service test equipment | 66 | 33 | 33 |
| N238 | Isolate LOX servicing cart malfunctions | 66 | 33 | 33 |
| A31 | Perform soldering on circuit boards | 73 | 41 | 32 |
| N235 | Inspect oxygen walkaround bottles or regulators | 66 | 34 | 32 |
| N262 | Remove or install LOX servicing cart components | 67 | 35 | 32 |
| H156 | Clean batteries | 80 | 49 | 31 |
| B40 | Bench check AC power components | 99 | 36 | 30 |
| N267 | Remove or install oxygen walkaround bottles or regulators | 60 | 30 | 30 |
| P301 | Inspect ram air systems | | 44 | -37 |
| G149 | Perform operational checks of spoiler control systems | <u> </u> | 43 | -36 |
| T441 | Position or remove aircraft chocks | 20 | 55 | -35 |
| Y621 | Clear Red-X conditions | 0 | 34 | -34 |
| T472 | Walk wings or tails during aircraft towing operations | 27 | 59 | -32 |
| C75 | Perform operational checks of electrical or air-operated starter system components | 13 | 43 | -30 |
| R354 | Inspect equipment cooling systems, | 27 | 57 | -30 |
| R368 | Remove or install equipment cooling system components | 27 | 57 | -30 |
| G153 | Remove or install spoiler control components | L | 37 | -30 |
| R357 | Isolate equipment cooling system malfunctions | 27 | 57 | -30 |
| G141 | Inspect spoiler control components | ٢ | 37 | -30 |

6 percent of the AFRES reporting grouped into the Supervisor Cluster. Since the ANG and AFRES members spend very little time performing Supervisory duties, this is the most significant area of difference between components. Tables 21-24 list the most common tasks performed by 7-skill level personnel. While active duty tasks involve supervisory functions, ANG and AFRES members still perform many of the technical tasks. Tables 25-28 show those tasks which best differentiate the 5-and 7-skill levels. As expected, key differences at the 7-skill level are greater emphasis on supervision and administration, with less emphasis on technical tasks.

<u>Summary</u>

Active duty Aircraft Electrical and Environmental Systems career ladder progression follows a normal pattern of technical job focus at the 3-skill level. Personnel slowly progress into supervisory duties in the 5-skill level, but are still performing mostly technical tasks, while at the 7-skill level they are primarily concerned with supervising personnel. On the other hand, ANG and AFRES personnel tend to perform a larger number of technical tasks at the upper skill levels, possibly due to the limited number of personnel in these components. Across all three components, emphasis at the 3-skill level is on fundamental maintenance and power systems. At the 5-skill level, members are still primarily concerned with fundamental maintenance and power systems, with a small increase in the supervisory duties within the active duty members. At the 7-skill level, active duty members spend most of their time performing supervisory activities, while ANG and AFRES work is still largely focused on technical tasks.

TRAINING ANALYSIS

Occupational survey data represent one of many sources of information which are used to assist in the development of training programs for career ladder personnel. OSR data useful to training personnel include job descriptions for the various jobs performed within a career ladder, distribution of personnel across career ladder jobs, percentages of personnel performing specific tasks, and percentages of personnel maintaining specific equipment or systems, as well as the difficulty of tasks and TE ratings gathered from senior members of the career ladder.

First Enlistment Analysis

In this study, there are 362 Aircraft Electrical and Environmental Systems members in their first enlistment (1-48 months TAFMS), representing 20 percent of the survey sample. Jobs they perform are displayed in Figure 2. As displayed in Table 29, 12 percent of their time is spent maintaining aircraft power and distribution systems, 11 percent of their time is spent performing fundamental maintenance, and 11 percent of their time is spent maintaining aircraft oxygen systems. Figure 2 shows that 75 percent of first-enlistment personnel are working on the

REPRESENTATIVE TASKS PERFORMED BY ALL DAFSC 2A676 PERSONNEL

| TASKS | | PERCENT MEMBERS PERFORMING (N=489) |
|-------|--|---|
| | | |
| A17 | Crimp splices or terminals to wires | 70 |
| A26 | Inspect wire bundles or harnesses | 70 |
| A4 | Assemble or disassemble connector plugs | 68 |
| U543 | Supervise military personnel | 67 |
| Y621 | Clear Red-X conditions | 67 |
| B43 | Inspect AC power components | 67 |
| D84 | Inspect anti-skid components | 67 |
| K193 | Perform operational checks of exterior lighting | 67 |
| Y618 | Access core automated maintenance system (CAMS) menus and data screens | 66 |
| B54 | Perform operational checks of AC power systems | 66 |
| B45 | Inspect DC power components | 66 |
| K194 | Perform operational checks of interior lighting | 66 |
| J178 | Perform operational checks of fire and overheat warning systems | 66 |
| B56 | Perform operational checks of DC power systems | 65 |
| D96 | Perform operational checks of anti-skid systems | 65 |
| A11 | Clean connector plugs | 65 |
| B59 | Remove or install AC power components | 65 |
| K188 | Inspect interior lighting components | 65 |
| A32 | Perform time compliance technical orders (TCTOs) modifications | 64 |
| K195 | Remove or install exterior lighting components | 64 |
| B49 | Isolate AC power malfunctions | 63 |
| A24 | Inspect electrical bonds or grounds | 63 |
| D90 | Isolate anti-skid malfunctions | 63 |
| U488 | Determine or establish work assignments or priorities | 62 |
| V555 | Conduct OJT | 62 |
| R366 | Remove or install air-conditioning system components | 62 |
| R352 | Inspect air-conditioning systems | 62 |
| R355 | Isolate air-conditioning system malfunctions | 62 |
| R362 | Perform operational checks of air-conditioning systems | 62 |
| P297 | Inspect bleed air systems | 62 |
| U475 | Assign personnel to work areas or duty positions | 58 |
| U480 | Conduct self-inspections or self-assessments | 57 |
| ¥637 | Initiate or annotate aircraft flight or maintenance records, such as AFTO Forms 781 series | 57 |
| V573 | Maintain training records or files | 56 |
| V558 | Demonstrate how to locate technical information | 56 |
| U518 | Evaluate personnel for compliance with performance standards | 55 |
| U485 | Counsel subordinates concerning personal matters | 55 |
| A25 | Inspect test equipment | 54 |

REPRESENTATIVE TASKS PERFORMED BY ACTIVE DUTY 2A676 PERSONNEL

| TASK | S | PERCENT MEMBERS PERFORMING (N=242) |
|------|---|---|
| U543 | Supervise military personnel | 77 |
| U485 | Counsel subordinates concerning personal matters | 71 |
| U488 | Determine or establish work assignments or priorities | 70 |
| U546 | Write performance reports or supervisory appraisals | 70 |
| U483 | Conduct supervisory performance feedback sessions | 70 |
| Y621 | Clear Red-X conditions | 68 |
| U518 | Evaluate personnel for compliance with performance standards | 68 |
| U475 | Assign personnel to work areas or duty positions | 64 |
| U528 | Inspect personnel for compliance with military standards | 62 |
| Y618 | Access core automated maintenance system (CAMS) menus and data screens | 61 |
| U532 | Participate in general meetings, such as staff meetings, briefings, conferences, or | 60 |
| | workshops, other than conducting | 00 |
| U480 | Conduct self-inspections or self-assessments | 60 |
| U491 | Develop or establish work methods or procedures | 60 |
| V573 | Maintain training records or files | 59 |
| U492 | Develop or establish work schedules | 58 |
| U482 | Conduct supervisory orientations for newly assigned personnel | 57 |
| U478 | Conduct general meetings, such as staff meetings, briefings, conferences, or workshops | 55 |
| U537 | Plan or schedule work assignments or priorities | 55 |
| U479 | Conduct safety inspections of equipment or facilities | 55 |
| U506 | Establish performance standards for subordinates | 55 |
| V568 | Evaluate progress of trainees | 54 |
| V555 | Conduct OJT | 53 |
| U486 | Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace | 52 |
| U540 | Schedule personnel for temporary duty (TDY) assignments, leaves, or passes | 52 |
| U522 | Evaluate work schedules | 51 |
| U519 | Evaluate personnel for promotion, demotion, reclassification, or special awards | 51 |
| V567 | Evaluate personnel to determine training needs | 51 |
| Y645 | Review aircraft flight or maintenance records, such as AFTO Forms 781 series | 50 |
| Y637 | Initiate or annotate aircraft flight or maintenance records, such as AFTO Forms 781 series | 50 |
| U529 | Interpret policies, directives, or procedures for subordinates | 48 |
| U523 | Evaluate workload requirements | 47 |
| V560 | Determine training requirements | 46 |
| Y641 | Observe in-process maintenance or initiate on-the-spot corrections | 45 |
| V575 | Plan or schedule training | 44 |
| Y644 | Retrieve CAMS listings or reports | 43 |

REPRESENTATIVE TASKS PERFORMED BY GUARD DAFSC 2A676 PERSONNEL

| TASKS | | PERCENT MEMBERS PERFORMING (N=137) |
|-------|--|---|
| | | |
| A17 | Crimp splices or terminals to wires | 94 |
| D96 | Perform operational checks of anti-skid systems | 92 |
| A4 - | Assemble or disassemble connector plugs | 91 |
| K194 | Perform operational checks of interior lighting | 91 |
| K193 | Perform operational checks of exterior lighting | 91 |
| K195 | Remove or install exterior lighting components | 91 |
| K196 | Remove or install interior lighting components | 91 |
| J178 | Perform operational checks of fire and overheat warning systems | 90 |
| K184 | Assemble or disassemble interior lighting assemblies | 90 |
| K183 | Assemble or disassemble exterior lighting assemblies | 89 |
| A26 | Inspect wire bundles or harnesses | 88 |
| A11 | Clean connector plugs | 88 |
| B59 | Remove or install AC power components | 88 |
| D84 | Inspect anti-skid components | 88 |
| K189 | Isolate exterior lighting malfunctions | 88 |
| D102 | Remove or install anti-skid components | 88 |
| J176 | Inspect fire and overheat detection circuit components | 88 |
| K190 | Isolate interior lighting malfunctions | 88 |
| B54 | Perform operational checks of AC power systems | 87 |
| A32 | Perform time compliance technical orders (TCTOs) modifications | 87 |
| A24 | Inspect electrical bonds or grounds | 87 |
| R352 | Inspect air-conditioning systems | 87 |
| R362 | Perform operational checks of air-conditioning systems | . 87 |
| O279 | Perform operational checks of cabin or cargo pressurization systems | 87 |
| B61 | Remove or install DC power components | 87 |
| O276 | Perform leakage checks of cabin or cargo pressurization systems | 86 |
| B56 | Perform operational checks of DC power systems | 85 |
| R366 | Remove or install air-conditioning system components | 85 |
| R355 | Isolate air-conditioning system malfunctions | 85 |
| P297 | Inspect bleed air systems | 85 |
| D90 | Isolate anti-skid malfunctions | 85 |
| B43 | Inspect AC power components | 85 |
| K188 | Inspect interior lighting components | 85 |
| B45 | Inspect DC power components | 84 |
| O282 | Remove or install cabin or cargo pressurization system components | 84 |
| Y618 | Access core automated maintenance system (CAMS) menus and data screens | 82 |
| H157 | Inspect batteries | 82. |
| P323 | Remove or install bleed air system components | 82 |
| O273 | Isolate cabin or cargo pressurization system malfunctions | 82 |
| B49 | Isolate AC power malfunctions | 81 |
| R359 | Perform leakage checks of air-conditioning systems | 81 |

REPRESENTATIVE TASKS PERFORMED BY RESERVE DAFSC 2A676 PERSONNEL

| TASK | S | PERCENT MEMBERS PERFORMING (N=110) |
|------|---|---|
| B54 | Perform operational checks of AC power systems | 90 |
| D84 | Inspect anti-skid components | 89 |
| B56 | Perform operational checks of DC power systems | . 88 |
| K193 | Perform operational checks of exterior lighting | 88 |
| A26 | Inspect wire bundles or harnesses | 87 |
| B59 | Remove or install AC power components | 87 |
| B43 | Inspect AC power components | 86 |
| J178 | Perform operational checks of fire and overheat warning systems | 86 |
| B61 | Remove or install DC power components | 86 |
| A17 | Crimp splices or terminals to wires | 85 |
| D96 | Perform operational checks of anti-skid systems | 85 |
| A11 | Clean connector plugs | 85 |
| B49 | Isolate AC power malfunctions | 85 |
| K196 | Remove or install interior lighting components | 85 |
| K194 | Perform operational checks of interior lighting | 85 |
| K188 | Inspect interior lighting components | 85 |
| B45 | Inspect DC power components | 85 |
| K187 | Inspect exterior lighting components | 85 |
| B51 | Isolate DC power malfunctions | 85 |
| K195 | Remove or install exterior lighting components | 84 |
| D102 | Remove or install anti-skid components | 84 |
| I171 | Remove or install fire or overheat system components | 84 |
| K189 | Isolate exterior lighting malfunctions | 84 |
| K183 | Assemble or disassemble exterior lighting assemblies | 84 |
| K184 | Assemble or disassemble interior lighting assemblies | 84 |
| A4 | Assemble or disassemble connector plugs | 83 |
| B58 | Perform operational checks of external power systems | 83 |
| D90 | Isolate anti-skid malfunctions | 82 |
| R355 | Isolate air-conditioning system malfunctions | 81 |
| R362 | Perform operational checks of air-conditioning systems | 81 |
| K190 | Isolate interior lighting malfunctions | 81 |
| A24 | Inspect electrical bonds or grounds | 80 |
| R352 | Inspect air-conditioning systems | 80 |
| J176 | Inspect fire and overheat detection circuit components | 80 |
| J177 | Isolate fire and overheat detection circuit malfunctions | 80 |
| R366 | Remove or install air-conditioning system components | 79 |
| R359 | Perform leakage checks of air-conditioning systems | 79 |
| O282 | Remove or install cabin or cargo pressurization system components | 79 |
| I173 | Remove or install warning system components | 78 |

TASKS WHICH BEST DIFFERENTIATE BETWEEN ALL DAFSC 2A656 AND DAFSC 2A676 PERSONNEL (PERCENT MEMBERS PERFORMING)

| | | | DAFSC | DAFSC | |
|---|-------|---|---------|---------|------|
| Crimp splices or terminals to wires (N=97/8) (N=97/8) Crimp splices or terminals to wires 90 70 Assemble or disassemble connector plugs 86 68 Clean connector plugs 83 65 Clean connector plugs 83 65 Develop or establish work schedules 34 67 Schedule personnel for compliance with performance standards 33 67 Schedule personnel for compliance with performance standards 33 67 Supervise military personnel 33 67 33 Supervise military personnel 6 37 67 Assign personnel for temporary duty (TDY) assignment, leaves, or passes 6 77 Supervise military personnel 7 7 7 Assign personnel to work methods or priorities 23 55 5 Supervise military personnel 7 7 6 77 Assign personnel to work areas or duty positions 7 7 6 77 Develop or establish work methods or procedures 7 7 6 77< | | | 2A656 | 2A676 | |
| Crimp splices or terminals to wires9070Assemble or disassemble connector plugs438668Assemble or disassemble connector plugs8668Clean connector plugs8365Develop or establish work schedules15491Clean Red-X conditions34672Develop or establish work schedules34673Subrate personnel for compliance with performance standards33665System personnel for compliance with performance standards336663735Supervise military personnel673 supervise military personnel537675Assign personnel to work areas or duty positions2337676Subjervise military personnel537677Subjervise military personnel637678Develop or establish work areas or duty positions2323529Develop or establish work areas or duty positions2323529Determine or establis | TASK | S | (N=978) | (N=489) | DIFF |
| Crimp splices or terminals to wires9070Assemble ordinector plugs8668Assemble ordinector plugs8568Clean connector plugs8568Clean connector plugs83652Develop or establish work schedules15491Clear Red-X conditions34672Develop or establish work schedules34673Subartiste personnel for compliance with performance standards23335Schedule personnel for remporary duty (TDY) assignment, leaves, or passes6377Plan or schedule work assignments or priorities23535Supervise military personnel37676Assign personnel to work areas or duty positions22227Plan or schedule training28288Schedule personnel for training28339Schedule personnel for training28336Conduct self-inspections or self-assesments17467Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace17456Determine or establish logistics requirements933677Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace17458Determine or establish logistics requirements933679Determine or establish logistics requirements93367< | | | | | |
| Asemble or disassemble connector plugs8668Clean connector plugsClean connector plugs8365Clean connector plugsClean connector plugs83652Develop or establish work schedules15491Clear Red-X conditions34678Evaluate personnel for compliance with performance standards23558Evaluate personnel for compliance with performance standards23567Plan or schedule personnel7778Supervise military personnel637677Plan or schedule work areas or duty positions2858588Assign personnel for vord areas or duty positions2858589Supervise military personnel2858589Schedule personnel for variates or duty positions2828589Schedule personnel for training2828589Develop or establish work areas or duty positions2828589Develop or establish work areas or duty positions2828589Develop or establish work areas or duty positions2828589Develop or establish work areas or duty positions28289Determine or establish work areas or duty positions28289Determine or establish work areas or duty positions28289Determine or establish orgistics requirements, such as staff meetings, br | A17 | Crimp splices or terminals to wires | 60 | 70 | 20 |
| Clean connector plugs8365Develop or establish work schedules15491Develop or establish work schedules15492Develop or establish work schedules23553Schedule personnel for compliance with performance standards23553Schedule personnel for compliance with performance standards23553Schedule personnel for remporary duty (TDY) assignment, leaves, or passes23563Sigip personnel for remporary duty positions23575Assign personnel3457575Assign personnel to work assignments or priorities2223575Plan or schedule training2357586Plan or schedule training1039527Plan or schedule personnel to work assignments or priorities2222528Develop or establish work assignments or priorities2357567Plan or schedule personnel to reatining1039528Determine or establish work assignments or priorities2357569Schedule personnel for training2323579Schedule personnel for raining1039529Schedule personnel for training2323539Schedule personnel for raining2323539Schedule personnel for raining2323549Determine or | A4 | Assemble or disassemble connector plugs | 86 | 68 | 18 |
| Develop or establish work schedules1549Clear Red-X conditions133467Clear Red-X conditions2355Evaluate personnel for compliance with performance standards2355Schedule personnel for compliance with performance standards5637Schedule personnel for remporary duty (TDY) assignment, leaves, or passes637Pan or schedule work assignments or priorities3767Supervise military personnel383758Panson consciences2858Supervise military personnel2858Supervise military personnel2858Supervise military personnel2857Supervise military personnel2857Develop or establish work areas or duty positions2222Develop or establish work areas or duty positions2352Develop or establish work areas1746Determine103352Determine282857Determine or establish work assignments or priorities2857Determine or establish work assignments, such as personnel, equipment, tools, parts, supplies, or workspace1745Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace2857Determine or establish work assignments285750Determine or establish work assignments285750Determine or establish work assignments28575 | A11 | Clean connector plugs | 83 | 65 | 18 |
| Clear Red-X conditions3467Evaluate personnel for compliance with performance standards2355Schedule personnel for compliance with performance standards2355Schedule personnel for compliance with performance standards2356Plan or schedule work assignments or priorities3767Supervise military personnel3767Supervise military personnel3767Supervise military personnel3767Supervise military personnel2222Supervise military personnel2222Supervise military personnel1746Plan or schedule training1039Evaluate work schedules1039Conduct set1223Schedule personnel for training2323Schedule personnel for training2323Conduct self-inspections or set1746Participate in general meetings, briefings, conferences, or workshops, other than23Conducting232333Schedule personnel for training1342Determine or establish logistics requirements, such as staff meetings, briefings, conferences, or workshops, other than22Schedule personnel for training1745Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than22Schedule personnel for promotion, demotion, reclassification, or special awards933Schedule personnel for promotion, demotion, reclassification, or spe | 11492 | Develop or establish work schedules | 15 | 49 | -34 |
| Evaluate personnel for compliance with performance standards2355Schedule personnel for temporary duty (TDY) assignment, leaves, or passes235637Plan or schedule work assignments or priorities376737Supervise military personnel37673767Assign personnel to work assignments or priorities285858Supervise military personnel285858Assign personnel to work areas or duty positions222858Develop or establish work methods or procedures1746Paluate work schedules103962Conduct self-inspections or self-assesments2857Schedule personnel for training1145Determine or establish work assignments, outfings, conferences, or workshops, other than2857Schedule personnel for training1342Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace1745Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than2250Conducting1395750Schedule personnel13425350Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than2250Schedule personnel53505050Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than550Schedule | Y621 | Clear Red-X conditions | 34 | 67 | -33 |
| Schedule personnel for temporary duty (TDY) assignment, leaves, or passes637Plan or schedule work assignments or prioritiesSupervise military personnel3767Supervise military personnelSupervise military personnel3767Assign personnel to work areas or duty positionsDevelop or establish work methods or procedures2858Plan or schedule trainingEvaluate constablish work methods or procedures1746Develop or establish work assignments or priorities225252Conduct self-inspections or self-assessments336233Schedule personnel for training103957Determine or establish work assignments, such as personnel, equipment, tools, parts, supplies, or workspace1745Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than2250Conducting13421342Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than2250Conducting6336633Conduct general meetings, such as staff meetings, briefings, conferences, or workshops937Schedule personnel for training1745Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than2250Conducting13144546Parliate workload requirements174545Conducting16434746 <td< td=""><td>U518</td><td>Evaluate personnel for compliance with performance standards</td><td>23</td><td>55</td><td>-32</td></td<> | U518 | Evaluate personnel for compliance with performance standards | 23 | 55 | -32 |
| Plan or schedule work assignments or priorities1647Supervise military personnel3767Supervise military personnel3767Assign personnel to work areas or duty positions2858Develop or establish work methods or procedures2252Plan or schedule training225252Determine or establish work areas or duty positions1746Evaluate work schedules103957Determine or establish work assignments or priorities3362Conduct self-inspections or self-assessments3362Conduct self-inspections or self-assessments3362Conduct self-inspections or self-assessments1745Patricipate in general meetings, briefings, conferences, or workshops, other than2250Conducting53937Schedule personnel575050Conducting requirements1745Participate in general meetings, briefings, conferences, or workshops, other than2250Schedule personnel for newly assigned personnel63340Stagin sponsors for newly assigned personnel134040Stagin sponsors for newly assigned personnel134040Stagin sponsors for newly assigned personnel64340Stagin sponsors for newly assigned personnel134040Stagin sponsors for newly assigned personnel134040Stagin sponsors for newly assigned person | U540 | Schedule personnel for temporary duty (TDY) assignment, leaves, or passes | 9 | 37 | -31 |
| Supervise military personnel3767Assign personnel to work areas or duty positions2858Assign personnel to work areas or duty positions2858Plan or schedule training225252Plan or schedule training1746Evaluate work schedules3362Determine or establish work assignments or priorities3362Conduct self-inspections or self-assessments3362Schedule personnel for training1342Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace1745Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than2250Conducting5022503366Conducting5150225043Determine realing requirements51505150Conducting5353535353Determine realing requirements51505053Conducting5353535353Schedule personnel for promotion, demotion, or special awards164353Schedule personnel for promotion, demotion, or special awards1340Schedule personnel for promotion, demotion, or special awards1340 | U537 | Plan or schedule work assignments or priorities | 16 | 47 | -31 |
| Asign personnel to work areas or duty positions2858Develop or establish work methods or procedures2252Plan or schedule training2252Evaluate work schedules1746Evaluate work schedules3362Determine or establish work assignments or priorities3362Conduct self-inspections or self-assessments2857Schedule personnel for training2857Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace1745Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than2250Conducting22502250Determine training requirements225050Conducting5505050Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than2250Conducting5505050Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than2250Conducting5505050Scalarate workload requirements55050Conducting55050Scalarate workload requirements550Scalarate workload requirements55Scalarate workload requirements55Scalarate workload requirements55Scalarate workload requirements5 <td>U543</td> <td>Supervise military personnel</td> <td>37</td> <td>67</td> <td>-30</td> | U543 | Supervise military personnel | 37 | 67 | -30 |
| Develop or establish work methods or procedures2252Plan or schedule training1746Plan or schedules1039Evaluate work schedules1033Determine or establish work assignments or priorities3362Conduct self-inspections or self-assessments2857Schedule personnel for training2857Schedule personnel for training2857Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace1745Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than2250Conducting22505050Scaluate workload requirements225050Scaluate workload requirements55050Scaluate workload requirements55050Scaluate workload requirements55050Scaluate workload requirements55050Scaluate workload requirements5550Scaluate personnel for newly assigned personnel55Scanduc | U475 | Assign personnel to work areas or duty positions | 28 | 58 | -30 |
| Plan or schedule training Evaluate work schedules1746Evaluate work schedules1039Evaluate work schedules3362Determine or establish work assignments or priorities3362Conduct self-inspections or self-assessments2857Schedule personnel for training1342Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace1745Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than2250conducting22505050conducting22505050conducting23505050conducting23505050conducting50505050conducting50505050conducting50505050conducting50505050conducting50505050conducting50505050conducting50505050conducting50505050conducting50505050conducting50505050conducting50505050conducting50505050conduct general meetings, briefings, conferences, or workshops65fertuine reai | U491 | Develop or establish work methods or procedures | 22 | 52 | -30 |
| Evaluate work schedules1039Determine or establish work assignments or priorities3362Conduct self-inspections or self-assessments3362Conduct self-inspections or self-assessments2857Schedule personnel for training2857Schedule personnel for training1342Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace1745Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than2250conducting22502350conducting23236633Conduct general meetings, briefings, conferences, or workshops, other than236633Conduct general meetings, such as staff meetings, briefings, conferences, or workshops, other than236633Conduct general meetings, such as staff meetings, briefings, conferences, or workshops6436633Evaluate personnel for promotion, demotion, reclassification, or special awards134040 | U575 | Plan or schedule training | 17 | 46 | -29 |
| Determine or establish work assignments or priorities3362Conduct self-inspections or self-assessments2857Conduct self-inspections or self-assessments2857Schedule personnel for training1342Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace1745Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than2250conducting225050Evaluate workload requirements2250Conducting633Assign sponsors for newly assigned personnel633Conduct general meetings, such as staff meetings, briefings, conferences, or workshops633Evaluate workload requirements164340Evaluate personnel for newly assigned personnel63340Evaluate personnel for promotion, demotion, reclassification, or special awards1642 | U522 | Evaluate work schedules | 10 | 39 | -29 |
| Conduct self-inspections or self-assessments2857Schedule personnel for training1342Schedule personnel for training1745Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace1745Participate in general meetings, such as staff meetings, conferences, or workshops, other than2250conducting2250Evaluate workload requirements2250Braticipate in general meetings, such as staff meetings, conferences, or workshops, other than2250Conducting633Ration staff meetings, briefings, conferences, or workshops633Assign sponsors for newly assigned personnel633Conduct general meetings, such as staff meetings, conferences, or workshops1340Evaluate personnel for promotion, demotion, reclassification, or special awards1642 | U488 | Determine or establish work assignments or priorities | 33 | 62 | -29 |
| Schedule personnel for training1342Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace1745Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than2250Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than2250conducting2250conducting2937Evaluate workload requirements937Determine training requirements1643Assign sponsors for newly assigned personnel633Conduct general meetings, such as staff meetings, briefings, conferences, or workshops1340Evaluate personnel for promotion, demotion, reclassification, or special awards1642 | U480 | Conduct self-inspections or self-assessments | 28 | 57 | -29 |
| Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace1745Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than2250conducting2250conducting2250conducting2337Evaluate workload requirements937Determine training requirements1643Assign sponsors for newly assigned personnel633Conduct general meetings, such as staff meetings, briefings, conferences, or workshops1340Evaluate personnel for promotion, demotion, reclassification, or special awards1642 | V579 | Schedule personnel for training | 13 | 42 | -29 |
| Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than2250conductingconducting937Evaluate workload requirements937Determine training requirements1643Assign sponsors for newly assigned personnel633Conduct general meetings, such as staff meetings, briefings, conferences, or workshops1340Evaluate personnel for promotion, demotion, reclassification, or special awards1642 | U486 | Determine or establish logistics requirements, such as personnel, equipment, tools, parts, supplies, or workspace | 17 | 45 | -28 |
| conducting937Evaluate workload requirements937Evaluate workload requirements1643Determine training requirements633Assign sponsors for newly assigned personnel633Conduct general meetings, such as staff meetings, briefings, conferences, or workshops1340Evaluate personnel for promotion, demotion, reclassification, or special awards1642 | U532 | Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than | 22 | 50 | -28 |
| Evaluate workload requirements937Determine training requirements1643Assign sponsors for newly assigned personnel633Conduct general meetings, such as staff meetings, briefings, conferences, or workshops1340Evaluate personnel for promotion, demotion, reclassification, or special awards942 | | conducting | | | |
| Determine training requirements1643Assign sponsors for newly assigned personnel633Conduct general meetings, such as staff meetings, conferences, or workshops1340Evaluate personnel for promotion, demotion, reclassification, or special awards42 | U523 | Evaluate workload requirements | 6 | 37 | -28 |
| Assign sponsors for newly assigned personnel 6 33 Conduct general meetings, such as staff meetings, briefings, conferences, or workshops 13 40 Evaluate personnel for promotion, demotion, reclassification, or special awards 16 42 | V560 | Determine training requirements | 16 | 43 | -27 |
| Conduct general meetings, such as staff meetings, briefings, conferences, or workshops Evaluate personnel for promotion, demotion, reclassification, or special awards | 11476 | Assign sponsors for newly assigned personnel | 9 | 33 | -27 |
| Evaluate personnel for promotion, demotion, reclassification, or special awards | 1)478 | Conduct general meetings, such as staff meetings, briefings, conferences, or workshops | 13 | 40 | -27 |
| | U519 | Evaluate personnel for promotion, demotion, reclassification, or special awards | 16 | 42 | -26 |

TASKS WHICH BEST DIFFERENTIATE BETWEEN ACTIVE DUTY DAFSC 2A656 AND DAFSC 2A676 PERSONNEL (PERCENT MEMBERS PERFORMING)

| | | DAFSC | DAFSC | |
|-------------|---|---------|---------|------|
| Ē | | 2A656 | 2A676 | |
| TASKS | 2 | (N=578) | (N=242) | DIFF |
| | | | | |
| AI7 | Crimp splices or terminals to wires | 87 | 49 | 38 |
| AII | Clean connector plugs | 81 | 44 | 37 |
| A4 7122 | Assemble or disassemble connector plugs | 82 | 48 | 34 |
| K193 | Perform operational checks of exterior lighting | 77 | 43 | 34 |
| 1441 | Position or remove aircraft chocks | 59 | 27 | 32 |
| N194 | Perform operational checks of interior lighting | 75 | 44 | 31 |
| 000 | Perform operational checks of DC power systems | 73 | 43 | 30 |
| C41A | Kemove or install exterior lighting components | 70 | 40 | 30 |
| N190 | Kemove or install interior lighting components | 70 | 40 | 30 |
| N190 | Isolate interior lighting maltunctions | 70 | 40 | 30 |
| K362 | Perform operational checks of air-conditioning systems | 67 | 38 | 29 |
| b 04 | Perform operational checks of AC power systems | 73 | 44 | 29 |
| | | | | |
| U540 | Schedule personnel for temporary duty (TDY) assignments, leaves, or passes | 6 | 52 | -43 |
| U492 | Develop or establish work schedules | 19 | 58 | -39 |
| U478 | Conduct general meetings, such as staff meetings, briefings, conferences, or workshops | 16 | 55 | -39 |
| U522 | Evaluate work schedules | 13 | 50 | -37 |
| U546 | Write performance reports or supervisory appraisals | 33 | 20 | -37 |
| U518 | Evaluate personnel for compliance with performance standards | 32 | 68 | -36 |
| U523 | Evaluate workload requirements | 11 | 46 | -35 |
| U532 | Participate in general meetings, such as staff meetings, briefings, conferences, or workshops, other than | 25 | 60 | -35 |
| 11411 | | | | |
| 11527 | Assign sponsors for newly assigned personnel | 8 | 42 | -34 |
| 1000 | rian or schedule work assignments or priorities | 20 | 54 | -34 |

TASKS WHICH BEST DIFFERENTIATE BETWEEN GUARD DAFSC 2A656 AND DAFSC 2A676 PERSONNEL (PERCENT MEMBERS PERFORMING)

| TASKS | | DAFSC 2A656 (N=225) | DAFSC 2A676 (N=137) | DIFF |
|-------|---|---------------------------|---------------------------|------|
| Y621 | Clear Red-X conditions | 23 | 75 | -52 |
| U543 | Supervise military personnel | 17 | 59 | -42 |
| V555 | Conduct OJT | 33 | 75 | -42 |
| U488 | Determine or establish work assignments or priorities | 16 | 58 | -42 |
| X609 | Initiate requisitions for equipment, tools, parts, or supplies | 22 | 63 | -41 |
| X607 | Evaluate serviceability of equipment, tools, parts, or supplies | 25 | 63 | -38 |
| Y622 | Coordinate aircraft maintenance activities with maintenance control | 40 | 78 | -38 |
| X615 | Maintain precision measurement equipment (PME) calibration schedules | 15 | 53 | -38 |
| X608 | Initiate documentation to turn in excess surplus property | 10 | 47 | -37 |
| V575 | Plan or schedule training | 10 | 46 | -36 |
| U518 | Evaluate personnel for compliance with performance standards | 9 | 42 | -36 |
| U475 | Assign personnel to work areas or duty positions | 13 | 49 | -36 |
| V567 | Evaluate personnel to determine training needs | 13 | 48 | -35 |
| V559 | Demonstrate operation of equipment | 33 | 68 | -35 |
| X617 | Review supply computer runs, such as D04, D18, or M30 | 7 | 42 | -35 |
| X613 | Maintain documentation on items requiring periodic inspections | 17 | 51 | -34 |
| V568 | Evaluate progress of trainees | 16 | 50 | -34 |
| Y641 | Observe in-process maintenance or initiate on-the-spot corrections | 16 | 50 | -34 |
| X611 | Issue or log turn-ins of equipment, tools, parts, or supplies | 28 | 62 | -34 |
| V573 | | 16 | 49 | -33 |
| Y651 | Update maintenance data collection (MDC) data using CAMS | 26 | 59 | -33 |
| X614 | Maintain organizational equipment or supply records, such as custodian authorization/custody receipt listings | ٢ | 40 | -33 |
| | (CA/CRLs) | 1 | | ; |
| Y639 | Inspect parts received for serviceability | 39 | 72 | -33 |

TASKS WHICH BEST DIFFERENTIATE BETWEEN RESERVE DAFSC 2A656 AND DAFSC 2A676 PERSONNEL (PERCENT MEMBERS PERFORMING)

| | | DAFSC | DAFSC | |
|-------|---|------------------|------------------|------|
| TASKS | S | 2A650 (N=175) | ZA6/6 (N=110) | DIFF |
| U485 | Counsel subordinates concerning personal matters | 14 | 48 | N2. |
| U492 | Develop or establish work schedules | : [] | 41 | -30 |
| U475 | Assign personnel to work areas or duty positions | 27 | 57 | -30 |
| U483 | Conduct supervisory performance feedback sessions | 11 | 41 | -30 |
| 81CU | Evaluate personnel for compliance with performance standards | 15 | 42 | -27 |
| 87CU | Inspect personnel for compliance with military standards | 15 | 42 | -27 |
| 1550 | Plan or schedule work assignments or priorities | 13 | 40 | -27 |
| C/ CD | Plan or schedule training | 22 | 49 | -27 |
| 6/.CU | Schedule personnel for training | 20 | 47 | -27 |
| U480 | Conduct self-inspections or self-assessments | 29 | 55 | -26 |
| 0488 | Determine or establish work assignments or priorities | 26 | 52 | -26 |
| U491 | Develop or establish work methods or procedures | 18 | 43 | -25 |
| U482 | Conduct supervisory orientations for newly assigned personnel | 14 | 39 | -25 |
| 1/0/ | Initiate requests for training | 12 | 37 | -25 |
| 09C V | Determine training requirements | 17 | 42 | -25 |
| 0.043 | Supervise military personnel | 33 | 57 | -24 |
| 0940 | Write pertormance reports or supervisory appraisals | ę | 27 | -24 |
| 0497 | Direct training functions | 20 | 44 | -24 |
| 91cU | Evaluate personnel for promotion, demotion, reclassification, or special awards | 6 | 32 | -23 |
| 80CV | | 26 | 49 | -23 |
| C7CU | Initiate actions required due to substandard performance of personnel | 5 | 28 | -23 |
| 1007 | Evaluate personnel to determine training needs | 22 | 45 | -23 |
| 6/CA | Maintain training records or files | 36 | 58 | -22 |
| 1701 | Clear Ked-X conditions | 34 | 56 | -22 |

FIGURE 2

FIRST-ENLISTMENT PERSONNEL JOBS



RELATIVE PERCENT OF TIME SPENT ACROSS DUTIES BY ACTIVE DUTY FIRST-ENLISTMENT AFSC 2A6X6 PERSONNEL

| | | AVERAGE PERCENT TIME SPENT |
|----|---|-------------------------------|
| TA | SKS | (N=362) |
| В | Mointaining aircraft nerver and distribution systems | 12 |
| _ | Maintaining aircraft power and distribution systems | 12 |
| A | Performing aircraft electrical and environmental fundamental maintenance | 11 |
| N | Maintaining aircraft oxygen systems and associated equipment | 11 |
| T | Performing general aircraft and cross utilization training (CUT) activities | 7 |
| K | Maintaining lighting systems | 7 |
| R | Maintaining aircraft air-conditioning systems | 7 |
| Р | Maintaining auxiliary air and bleed air distribution systems | 6 |
| D | Maintaining landing gear systems | 6 |
| Y | Performing maintenance management activities | 5 |
| Н | Maintaining batteries | 4 |
| S | Maintaining miscellaneous electrical environmental control systems | 4 |
| 0 | Maintaining aircraft pressurization systems | 4 |
| I | Maintaining master caution and warning systems | 2 |
| J | Maintaining fire and overheat warning systems | 2 |
| Μ | Maintaining aircraft fire extinguishing systems | 2 |
| G | Maintaining flight control systems | 2 |
| Х | Performing general supply and equipment activities | 2 |
| L | Maintaining anti-icing systems | 1 |
| Q | Maintaining aircraft liquid coolant and liquid cycle refrigeration systems | 1 |
| С | Maintaining engine start and ignition control systems | 1 |
| Е | Maintaining cargo door and ramp systems | 1 |
| F | Maintaining fuel and water injection systems | 1 |
| V | Performing training activities | 1 |
| U | Performing management and supervisory activities | 1 |
| Μ | Performing general administrative and technical order system activities | - |

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

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in a backshop. There were no first-enlistment personnel in the Training Cluster, the Supervisor Cluster, the Quality Assurance Inspector Job, or the Safety Inspector Job. This is not surprising, since personnel at the higher skill levels traditionally perform these jobs.

Table 30 displays commonly performed tasks for active duty first-enlistment personnel. The majority of tasks displayed involve performing operational checks of components, and inspecting, removing and installing components.

Training Emphasis (TE) and Task Difficulty (TD) Data

TE and TD data are secondary factors that can help technical school personnel decide which entry-level training tasks to emphasize. These ratings, based on the judgments of senior career ladder NCOs at operational units, provide training personnel with a rank ordering of those tasks considered important for first-enlistment airman training (TE), and a measure of the difficulty of those tasks (TD). When combined with data on the percentages of first-enlistment personnel performing tasks, comparisons can be made to determine if training adjustments are necessary. For example, tasks receiving high ratings on both task factors (TE and TD), accompanied by moderate to high percentages performing, may warrant resident training. Those tasks receiving high task factor ratings, but low percentages performing may be more appropriately planned for OJT programs within the career ladder. Low task factor ratings may highlight tasks best omitted from training for first-enlistment personnel. This decision must be weighed against percentages of personnel performing the tasks, command concerns, and criticality of the tasks.

Table 31 lists the tasks having the highest TE ratings, as well as the percentages of first-job, first-enlistment, and TD ratings for each task. The majority of high TE tasks are performed by high percentages of both groups. Most tasks involve performing operational checks on various equipment pieces.

Table 32 lists the tasks having the highest TD rating, with the percentages of first-job, firstenlistment, 3-, 5-, and 7-skill level personnel performing, and TE ratings included for each task. The majority of tasks with high difficulty involve isolating malfunctions. Most of the tasks with high difficulty were performed fairly evenly across all levels, with a slight increase as members move up through the skill levels. Various lists of tasks, accompanied by TD ratings, are contained in the Training Extract package and should be reviewed in detail by technical school personnel. For a more detailed explanation of TD and TE ratings, see the Task Factor Administration in the **SURVEY METHODOLOGY** section of this report.

MOST COMMONLY PERFORMED TASKS FOR ACTIVE DUTY FIRST-ENLISTMENT 2A6X6 PERSONNEL

| TASK | 5 | PERCENT MEMBERS PERFORMING (N=362) |
|------|---|---|
| A17 | Crimp splices or terminals to wires | 92 |
| A4 | Assemble or disassemble connector plugs | 86 |
| K193 | Perform operational checks of exterior lighting | 80 79 |
| A26 | Inspect wire bundles or harnesses | 78 |
| A11 | Clean connector plugs | 78 76 |
| K194 | Perform operational checks of interior lighting | 70 76 |
| B59 | Remove or install AC power components | 70 72 |
| B54 | Perform operational checks of AC power systems | 72 |
| B56 | Perform operational checks of DC power systems | 72 70 |
| K195 | Remove or install exterior lighting components | 70 70 |
| K196 | Remove or install interior lighting components | 70 |
| K189 | Isolate exterior lighting malfunctions | 70 |
| R362 | Perform operational checks of air-conditioning systems | 69 |
| A24 | Inspect electrical bonds or grounds | 69 . |
| A32 | Perform time compliance technical orders (TCTOs) modifications | 69 |
| D96 | Perform operational checks of anti-skid systems | 69 |
| B61 | Remove or install DC power components | 69 |
| R366 | Remove or install air-conditioning system components | 67 |
| B49 | Isolate AC power malfunctions | 67 |
| J178 | Perform operational checks of fire and overheat warning systems | 67 |
| K190 | Isolate interior lighting malfunctions | 67 |
| D102 | Remove or install anti-skid components | 66 |
| K187 | Inspect exterior lighting components | 65 |
| B51 | Isolate DC power malfunctions | 65 |
| R359 | Perform leakage checks of air-conditioning systems | 64 |
| K183 | Assemble or disassemble exterior lighting assemblies | 64 |
| K188 | Inspect interior lighting components | 64 |
| B43 | Inspect AC power components | 64 |
| P316 | Perform operational checks of bleed air systems | 63 |
| D84 | Inspect anti-skid components | 63 |
| P323 | Remove or install bleed air system components | 62 |
| B45 | Inspect DC power components | 62 |
| D90 | Isolate anti-skid malfunctions | 62 |
| R352 | Inspect air-conditioning systems | 61 |
| R355 | Isolate air-conditioning system malfunctions | 61 |
| P312 | Perform leakage checks of bleed air systems | 61 |
| B58 | Perform operational checks of external power systems | 61 |
| P297 | Inspect bleed air systems | 60 |
| O279 | Perform operational checks of cabin or cargo pressurization systems | 60 |

TECHNICAL TASKS RATED HIGHEST IN TRAINING EMPHASIS (TE) BY AFSC 2A6X6 PERSONNEL

| | | PERCI | ENT MEMBI | PERCENT MEMBERS PERFORMING | MING |
|-------|---|-------|-----------|----------------------------|--------|
| | | DNT | IST | lST | TASK |
| TASKS | | EMP* | JOB | ENL | DIFF** |
| | | | | | |
| A17 | Crimp spices or terminals to wires | 7.69 | 89 | 92 | 2.55 |
| B49 | Isolate AC power malfunctions | 7.13 | · 59 | 67 | 7.37 |
| R355 | Isolate air-conditioning system malfunctions | 7.11 | 54 | 31 | 6.88 |
| B54 | Perform operational checks of AC power systems | 7.00 | 67 | 72 | 4.75 |
| 0279 | Perform operational checks of cabin or cargo pressurization systems | 7.00 | 57 | 60 | 6.08 |
| D93 | Isolate landing gear control or warning malfunctions | 6.91 | 45 | 54 | 7.25 |
| 1177 | Isolate fire and overheat detection circuit malfunctions | 6.91 | 50 | 57 | 6.32 |
| A26 | Inspect wire bundles or harnesses | 6.87 | 77 | 78 | 3.66 |
| B51 | Isolate DC power malfunctions | 6.87 | 58 | 65 | 6.71 |
| D96 | Perform operational checks of anti-skid systems | 6.84 | 65 | 69 | 5.31 |
| B56 | Perform operational checks of DC power systems | 6.78 | 64 | 70 | 4.55 |
| P304 | Isolate bleed air system malfunctions | 6.76 | 53 | 59 | 6.20 |
| B53 | Isolate external power system malfunctions | 6.67 | 46 | 56 | 6.49 |
| J178 | Perform operational checks of fire and overheat warning systems | 6.62 | 60 | 67 | 3.89 |
| R362 | Perform operational checks of air-conditioning systems | 6.62 | 65 | 69 | 4.92 |
| A4 | Assemble or disassemble connector plugs | 6.62 | 83 | 86 | 4.11 |
| P316 | Perform operational checks of bleed air systems | 6.60 | 60 | 63 | 4.93 |
| B58 | Perform operational checks of external power systems | 6.58 | 56 | 61 | 4.29 |
| | | | | | |

* Mean TE Rating is 2.65, and Standard Deviation is 1.66 (High TE = 4.31)
** Average TD Rating is 5.00

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TASKS RATED HIGHEST IN TASK DIFFICULTY (TD) BY AFSC 2A6X6 PERSONNEL

| | | | PE | PERCENT MEMBERS PERFORMING | EMBERS P | ERFORMI | ŪN. | |
|-------|--|-------|-----|----------------------------|----------|---------|-------|------|
| | | TASK | IST | IST | | | | DNT |
| TASKS | S | DIFF* | JOB | ENL | 2A636 | 2A656 | 2A676 | EMP* |
| | | | | | | | | |
| G143 | Isolate flight control asymmetry system malfunctions | 7.87 | 10 | 13 | 14 | 24 | 24 | 3.24 |
| B49 | Isolate AC power malfunctions | 7.37 | 59 | 67 | 67 | 70 | 70 | 7.13 |
| B52 | Isolate emergency power malfunctions, other than batteries | 7.27 | 30 | 41 | 42 - | 52 | 52 | 6.18 |
| D93 | Isolate landing gear control or warning malfunctions | 7.25 | 45 | 54 | 54 | 61 | 61 | 6.91 |
| G142 | Isolate flap or slat control and warning malfunctions | 7.22 | 19 | 25 | 23 | 35 | 35 | 4.04 |
| D92 | Isolate kneeling system malfunctions | 7.19 | ę | Ś | 5 | 6 | 6 | 1.82 |
| U499 | Draft budget requirements | 7.12 | 0 | T | 1 | - | 1 | .58 |
| G145 | Isolate spoiler control malfunctions | 7.01 | 7 | 10 | 10 | 18 | 18 | 3.04 |
| C74 | Isolate propeller control circuit malfunctions | 6.97 | 7 | L | × | 10 | 10 | 1.64 |
| EII7 | Isolate cargo ramp malfunctions | 6.95 | 14 | 17 | 16 | 24 | 24 | 2.96 |
| T437 | Perform ground engine runs | 6.94 | 18 | 20 | 20 | 22 | 22 | 1.29 |
| A33 | Remove or install components on circuit boards | 6.92 | 20 | 20 | 21 | 16 | 16 | 1.84 |
| A27 | Isolate test equipment malfunctions | 6.89 | 16 | 21 | 21 | 21 | 21 | 3.04 |
| K355 | Isolate air-conditioning system malfunctions | 6.88 | 54 | 61 | 62 | 65 | 65 | 7.11 |
| B50 | Isolate battery charger system malfunctions | 6.86 | 33 | 41 | 41 | 51 | 51 | 5.91 |
| U534 | Plan deployments of equipment or personnel | 6.82 | 0 | 0 | 0 | 4 | 4 | 1.18 |
| 194 | Isolate nose-wheel or nose-gear steering malfunctions | 6.81 | 28 | 32 | 31 | 38 | 38 | 5.29 |
| U500 | Draft inputs for status of resources, training, and supplies (SORTS) program | 6.76 | 0 | 0 | 0 | ε | e | 68. |
| V564 | Develop training programs, plans, or procedures | 6.72 | 0 | - | 1 | - 11 | 11 | 1.04 |
| 108 | Isolate DC power malfunctions | 6.71 | 58 | 65 | 65 | 68 | 68 | 6.87 |
| | | | | | | | | |

* Average TD Rating is 5.00
** Mean TE Rating is 2.65, and Standard Deviation is 1.66 (High TE = 4.31)

Specialty Training Standard (STS)

A comprehensive review of the STS was made by comparing survey data to STS elements. SMEs matched JI tasks to appropriate STS sections and subsections. A complete computer listing displaying the percent members performing tasks, TE and TD ratings for each task, along with the STS matching, has been forwarded to the school for further review of training documents.

Typically, tasks which have sufficiently high TE and TD ratings, and are performed by at least 20 percent of personnel in appropriate experience or skill-level groups (such as first-enlistment or 1-48 months TAFMS, and 5- and 7-skill level groups), should be considered for inclusion in the STS. Likewise, tasks with less than 20 percent performing in all of these groups should be considered for deletion from the STS. Twenty-eight line items from the STS were not supported by 20 percent of personnel. Examples of these items are in Table 33, along with the accompanying JI task and survey data. Bench checking and inspecting various components were areas not performed by 20 percent of personnel. Training personnel and SMEs should review these areas to determine if inclusion in future revisions to the STS is warranted.

Tasks not matched to any element of the STS are listed at the end of the STS computer listing. These were reviewed to determine if there were any tasks concentrated around any particular functions or jobs. All of the tasks not matched were from the Performing General Aircraft and Cross Utilization Training Activities duty section. Examples of tasks not matched are in Table 34.

Examples of technical tasks performed by at least 20 percent of STS target group respondents, but which are not referenced to any STS element, are displayed in Table 34. Training personnel and SMEs should review these and other unreferenced tasks to determine STS inclusion.

JOB SATISFACTION ANALYSIS

An examination of the job satisfaction indicators of various groups can give career ladder managers a better understanding of some of the factors which may affect the job performance of airmen in the career ladder. Questions covering job interest, perceived utilization of talents and training, sense of accomplishment from work, and reenlistment intentions were included in the survey booklet to provide indications of job satisfaction

The Aircraft Electrical and Environmental Systems survey booklet included questions covering job interest, perceived utilization of talents and training, sense of accomplishment from work, and reenlistment intentions. The responses of the current survey sample were then analyzed by making the following comparisons: (1) among TAFMS groups of the Aircraft Electrical and Environmental Systems career ladder and a comparative sample of personnel from other Mission Equipment Management career ladders surveyed in 1996; (2) between current and

EXAMPLES OF STS ITEMS NOT SUPPORTED BY OSR DATA (PERCENT MEMBERS PERFORMING)

| | | | MEMBE | PERCENT ERS PERFC | ORMING | |
|---|---------------|-------------|----------------|----------------------|----------------|--------------|
| | 3-LVL PROF | TNG | 1ST ENL | 5- LVL | 7- LVL | TSK |
| STS REFERENCE/TASKS | CODE | EMP | <u>(N=362)</u> | <u>(N=578)</u> | <u>(N=242)</u> | DIF |
| 1a Communication Security (COMSEC) U504 Establish communications security | - | .69 | 0 | 0 | 0 | 6.52 |
| (COMSEC) subaccounts W588 Initiate classified reports, messages, or documents | | .49 | 1 | 1 | 1 | 6.00 |
| 22hD83 Bench check nose-wheel or nose-gear steering components | - | 2.13 | 9 | 8 | 5 | 5.37 |
| 25h. Bench check components | - | | | | | |
| M204 Bench check aircraft fire extinguishing system components | | 1.84 | 5 | 8 | 4 | 5.21 |
| M205 Bench check aircraft fire suppression system | | 1.69 | 4 | 7 | 3 | 5.39 |
| components M206 Calibrate aircraft fire suppression systems | | 1.04 | 4 | 6 | 3 | 6.05 |
| 28h Bench check components | _ | | | | | |
| E107 Bench check cargo door control components | - | 1.31 | 2 | 3 | 2 | 5.17 |
| E108 Bench check cargo hoist or winch components | | .87 | 2 | 3 | 2 | 4.98 |
| 30b(1) Jet engine | | | | | | |
| S390 Isolate IBIS circuit component malfunctions | - | .84 | 1 | 2 | 1 | 6.24 |
| 31h Bench check components L197 Bench check anti-ice or deice electrical control and warning components | - | 1.98 | 7 | 8 | 4 | 4.77 |
| 33b Bsubsystem fundamentals | | | | | | |
| P290 Bench check bleed air system componentsP289 Bench check ATMs or control devices | | 1.87 .96 | 5 2 | 6 1 | 4 1 | 5.41 5.87 |

TD MEAN = 5.00; SD = 1.00 TE MEAN = 2.65; SD = 1.66

TECHNICAL TASKS PERFORMED BY 20 PERCENT OR MORE GROUP MEMBERS BUT NOT REFERENCED BY STS

| | | | PEI | RCENT | MEMBER | PERCENT MEMBERS PERFORMING | DNIV | |
|-------|--|-------|-----|-------|---------|----------------------------|---------|------|
| | | , DNT | 1ST | IST | 2A636 | 2A656 | 2A676 | TSK |
| TASKS | | EMP | JOB | ENL | (N=341) | (N=578) | (N=242) | DIF |
| | | | | | | | | |
| T466 | Static ground aircraft | 4.07 | 24 | 34 | 34 | 49 | 26 | 1.58 |
| T439 | Perform pre-use inspections of aircraft support equipment, such as | 4.02 | 14 | 18 | 19 | 35 | 21 | 4.04 |
| | hydraulic servicing carts or maintenance stands | | | | | | | |
| T452 | Remove or install aircraft safety pins or locks | 3.82 | 34 | 42 | 41 | 49 | 25 | 3.22 |
| T472 | Walk wings or tails during aircraft towing operations | 3.47 | 51 | 56 | 55 | 62 | 39 | 1.54 |
| T427 | Inspect egress system safety pins | 3.31 | 12 | 16 | 16 | 19 | 6 | 3.61 |
| T448 | Remove or install aircraft doors or panels | 3.20 | 40 | 44 | 44 | 53 | 27 | 3.28 |
| T432 | Operate aircraft brakes during towing operations | 3.16 | 26 | 35 | 36 | 48 | 24 | 2.80 |
| T450 | Remove or install aircraft landing gear components | 2.91 | 21 | 30 | 31 | 42 | 19 | 5.39 |
| T429 | Launch or recover aircraft | 2.87 | 40 | 45 | 45 | 52 | 27 | 4.01 |
| T428 | Jack or level aircraft | 2.64 | 36 | 43 | 43 | 54 | 27 | 4.82 |
| T441 | Position or remove aircraft chocks | 2.64 | 49 | 53 | 53 | 59 | 27 | 1.71 |
| T430 | Marshall aircraft | 2.56 | 23 | 29 | 28 | 36 | 24 | 3.51 |
| T462 | Service engine constant speed drives (CSDs) | 2.53 | 12 | 17 | 18 | 28 | 15 | 3.84 |
| T425 | Inspect aircraft pneumatic systems | 2.40 | 11 | 12 | 14 | 24 | 13 | 4.52 |
| T473 | Wash aircraft | 2.27 | 38 | 42 | 42 | 30 | 13 | 1.96 |
| T440 | Perform supplemental inspections, such as acceptance, calendar, | 2.24 | 10 | 15 | 14 | 28 | 19 | 4.42 |
| | or time replacement item | | | | | | | |
| T422 | Connect or disconnect portable hydraulic test stands to or from | 2.13 | 12 | 16 | 17 | 20 | 11 | 4.09 |
| T468 | anciait Tow aircraft | 2.07 | 16 | 20 | 22 | 30 | 22 | 4.38 |
| T469 | Tow nonpowered Aerospace Ground Equipment (AGE) | 2.07 | 20 | 24 | 24 | 40 | 26 | 2.47 |
| T471 | Transport test equipment or units to or from flightline | 1.96 | 13 | 17 | 17 | 28 | 17 | 1.85 |
| | | | | | | | | |

TD MEAN = 5.00; SD = 1.00

previous survey experience groups; and (3) across specialty groups identified in the SPECIALTY JOBS section of the report. In addition, the current study also lists job satisfaction across jobs by both ANG and AFRES.

Table 35 compares first-enlistment (1-48 months TAFMS), second-enlistment (49-96 months TAFMS), and career (97+ months TAFMS) group data to corresponding enlistment groups from other Mission Equipment Management AFSCs surveyed during the previous calendar year. These data give a relative measure of how the job satisfaction of AFSC 2A6X6 personnel compares with similar Air Force specialties. All three groups report comparable job satisfaction for all indicators except reenlistment intentions. The "NO OR PROBABLY NO" reenlistment intention indicators for all three groups were somewhat higher than other Mission Equipment AFSCs.

Table 36 compares job satisfaction indicator responses of the TAFMS groups in the current survey to TAFMS groups for the previous survey. Generally, the 1997 responses are very similar when compared to the 1993 responses.

An examination of job satisfaction data can also reveal the influences performing certain jobs may have on overall job satisfaction. Table 37 presents job satisfaction data for the jobs identified in the career ladder structure for AFSC 2A6X6. Overall, job satisfaction was very high across specialty jobs, with a slight decrease in job satisfaction for the Safety Inspection Job. Job satisfaction was highest for the Quality Assurance Inspector Job.

When there are issues in an occupation that are not directly addressed in the JI, survey respondents frequently provide write-in comments. The majority of write-in comments dealt with explaining the type of job held, base to which assigned (particularly ANG bases), or expanded upon the specific type of equipment used. Very few comments addressed anything other than the above mentioned topics.

IMPLICATIONS

As explained in the INTRODUCTION, this survey was conducted as part of a 5-year cycle and to provide training personnel with current information on the Aircraft Electrical and Environmental Systems career ladder for use in reviewing current training programs and training documents. Overall job progression is normal and shows a distinct pattern as one moves from the 3- to the 7-skill level. The AFMAN 36-2108 *Specialty Description* broadly describes jobs and tasks being performed. Job satisfaction is high and there were not any serious problem areas noted. Analysis of career ladder documents indicate the STS contains a number of unsupported line items and learning objectives, and excludes an entire duty section. The unsupported items should be reviewed to determine if their inclusion in future revisions of the STS is warranted.

JOB SATISFACTION INDICATORS FOR ACTIVE DUTY AFSC 2A6X6 TAFMS GROUPS (PERCENT MEMBERS RESPONDING)

| | 1-48 MONTHS TAFMS | 8 MONTHS TAFMS | 49-96 N TA | 49-96 MONTHS TAFMS | 97+ M(TAI | 97+ MONTHS TAFMS |
|--|----------------------|-------------------|---------------|-----------------------|---------------|---------------------|
| | AFSC 2A6X6 | COMP SAMPLE | AFSC 2A6X6 | COMP SAMPLE | AFSC 2A6X6 | COMP SAMPLE |
| | (N=362) | (N=4,506) | (N=250) | (N=3,339) | (N=549) | (N=9,548) |
| EXPRESSED JOB INTEREST: | | | | | | |
| INTERESTING | 74 | 75 | 75 | 73 | 81 | 78 |
| TIIID OS-OS | 15 11 | 16 9 | 14 11 | 16 11 | 12 | 8 |
| PERCEIVED UTILIZATION OF TALENTS: | | | | | | |
| | 60 | 60 | 90 | 64 | 87 | 85 |
| FAIRLY WELL TO FERFECTLY LITTLE OR NOT AT ALL | 00 17 | co 11 | 14 | 16 | 13 | 15 |
| PERCEIVED UTILIZATION OF TRAINING: | | | | | | |
| FAIRLY WELL TO PERFECTLY | 89 | 89 | 89 | 84 | 85 | 82 |
| LITTLE OR NOT AT ALL | 11 | 11 | 11 | 16 | 15 | 18 |
| SENSE OF ACCOMPLISHMENT GAINED FROM WORK: | | | | | | |
| SATISFIED | 71 | 73 | 10 | 72 | 77 | 75 |
| NEUTRAL | 14 | 14 | 15 | 13 | 6 | 11 |
| DISSATISFIED | 15 | 13 | 16 | 15 | 14 | 14 |
| REENLISTMENT INTENTIONS: | | | | | | |
| YES, OR PROBABLY YES | 54 | 63 | 68 | 73 | 73 | 78 |
| NO, OR PROBABLY NO PLAN TO RETIRE | 46 0 | 36 1 | 32 0 | 26 1 | 7 19 | 7 15 |

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COMPARISON OF JOB SATISFACTION INDICATORS FOR AFSC 2A6X6 TAFMS GROUPS IN CURRENT STUDY TO PREVIOUS STUDY (PERCENT MEMBERS RESPONDING)

| | 1-48 M TAF | 1-48 MONTHS TAFMS | 49-96 N TA | 49-96 MONTHS TAFMS | 97+ M(TA) | 97+ MONTHS TAFMS |
|---|---------------|----------------------|---------------|-----------------------|---------------|---------------------|
| | 1997 | 1993 | 1997 | 1993 | 1997 | 1993 |
| | 2A6X6 | 2A6X6 | 2A6X6 | 2A6X6 | 2A6X6 | 2A6X6 |
| | (N=362) | (N=897) | (N=250) | (N=575) | (N=549) | (N=1,456) |
| EXPRESSED JOB INTEREST: | | | | | | |
| INTERESTING | 74 | 77 | 75 | 75 | 81 | 76 |
| SO-SO | 15 | 14 | 14 | 16 | 12 | 16 |
| DULL | 11 | 8 | 11 | 6 | 7 | × |
| PERCEIVED UTILIZATION OF TALENTS: | | | | | | |
| FAIRLY WELL TO PERFECTLY | 83 | 83 | 86 | 84 | 87 | 84 |
| LITTLE OR NOT AT ALL | 17 | 17 | 14 | 16 | 13 | 16 |
| PERCEIVED UTILIZATION OF TRAINING: | | | | | | |
| FAIRLY WELL TO PERFECTLY | 89 | 88 | 89 | 86 | 85 | 81 |
| LITTLE OR NOT AT ALL | 11 | 12 | 11 | 14 | 15 | 18 |
| SENSE OF ACCOMPLISHMENT GAINED FROM WORK: | | | | | | |
| SATISFIED | 11 | 78 | 70 | 75 | 77 | 75 |
| NEUTRAL | 14 | 10 | 15 | 15 | 6 | 6 |
| DISSATISFIED | 15 | 11 | 16 | 15 | 14 | 16 |
| REENLISTMENT INTENTIONS: | | | | | | |
| YES, OR PROBABLY YES | 54 | 57 | 68 | 70 | 73 | 78 |
| NO, OR PROBABLY NO | 46 | 43 | 32 | 30 | с. г - | ° 8 |
| PLAN TO RETIRE | 0 | 0 | 0 | 0 | 19 | 14 |

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|----|--|
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| BI | |
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COMPARISONS OF JOB SATISFACTION INDICATORS FOR MEMBERS OF SPECIALTY JOBS (PERCENT MEMBERS RESPONDING)

| - - | POWER (STG134) (N=18) | FLIGHTLINE (STG083) (N=1,274) | BACKSHOP (STG107) (N=172) | OXYGEN (STG125) (N=12) |
|--|-----------------------------|-------------------------------------|---------------------------------|------------------------------|
| EXPRESSED JOB INTEREST: | | | | |
| INTERESTING SO-SO DULL | 83 0 17 | 84 11 5 | 67 19 15 | 67 17 17 |
| PERCEIVED UTILIZATION OF TALENTS: | | | | |
| FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL | 83 17 | 89 11 | 81 19 | 75 25 |
| PERCEIVED UTILIZATION OF TRAINING: | | | | |
| FAIRLY WELL TO PERFECTLY LITTLE OR NOT AT ALL | 89 11 | 93 7 | 82 18 | 83 17 |
| SENSE OF ACCOMPLISHMENT GAINED FROM WORK: | | | | |
| SATISFIED NEUTRAL DISSATISFIED | 72 0 28 | 78 11 12 | 63 21 16 | 75 8 17 |
| REENLISTMENT INTENTIONS: | | | | |
| YES, OR PROBABLY YES NO, OR PROBABLY NO PLAN TO RETIRE | 67 22 6 | 75 18 6 | 65 28 6 | 92 8 |

TABLE 37 (CONTINUED)

COMPARISONS OF JOB SATISFACTION INDICATORS BY SPECIALTY JOBS (PERCENT MEMBERS RESPONDING)

| | TRAINING (STG084) (N=30) | QA INSPECTOR (STG127) (N=11) | SUPERVISOR (STG099) (N=86) | SAFETY INSPECTOR (STG122) (N=12) |
|---|--------------------------------|------------------------------------|----------------------------------|---|
| EXPRESSED JOB INTEREST: | | | | |
| INTERESTING | 93 | 16 | 88 | 83 |
| SO-SO | £ | 6 | 7 | 13 |
| DULL | £ | 0 | 5 | ю |
| PERCEIVED UTILIZATION OF TALENTS: | | | | |
| FAIRLY WELL TO PERFECTLY | 93 | 100 | 93 | 83 |
| LI I LE OK NOT AT ALL | 7 | 0 | 7 | 17 |
| PERCEIVED UTILIZATION OF TRAINING: | | | | |
| FAIRLY WELL TO PERFECTLY | 67 | 100 | 78 | 58 |
| LITTLE OR NOT AT ALL | ç | 0 | 22 | 42 |
| SENSE OF ACCOMPLISHMENT GAINED FROM WORK: | | | | |
| SATISFIED | 67 | 100 | 84 | 67 |
| NEUTRAL DISSATISEIED | 0 | 0 | 2 | 25 |
| DISSALISFIED | ς, | 0 | 14 | 8 |
| REENLISTMENT INTENTIONS: | | | | |
| YES, OR PROBABLY YES | 90 | 16 | 72 | 58 |
| NU, OK PKOBABLY NO DI AN TO DETUDE | ŝ | 0 | ę | 8 |
| FLAN IU KEIIKE | 7 | 6 | 24 | 33 |

From the standpoint of data gathered during this OSR, the AFSC 2A6X6 career ladder structure reflects a wide diversity and variety of jobs performed by career ladder members. Almost three-quarters of career ladder members spend their time on the flightline. The Backshop Cluster is the place most of the remaining personnel are located. Despite the diversity of work found in the career ladder, job progression shows a distinct pattern as one moves from the 3- to 7-skill levels. The AFMAN 36-2108 *Specialty Description* broadly describes the jobs performed.

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APPENDIX A

REPRESENTATIVE TASKS PERFORMED BY MEMBERS OF CAREER LADDER JOBS

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REPRESENTATIVE TASKS PERFORMED POWER (N=18)

PERCENT MEMBERS PERFORMING TASKS 100 CRIMP SPLICES OR TERMINALS TO WIRES A17 PERFORM OPERATIONAL CHECKS OF AC POWER SYSTEMS 100 **B54** 100 **REMOVE OR INSTALL AC POWER COMPONENTS** B59 94 PERFORM OPERATIONAL CHECKS OF DC POWER SYSTEMS **B56** 94 ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS A4 94 REMOVE OR INSTALL DC POWER COMPONENTS B61 89 CLEAN CONNECTOR PLUGS A11 83 ISOLATE AC POWER MALFUNCTIONS B49 83 PERFORM OPERATIONAL CHECKS OF EXTERNAL POWER **B58** SYSTEMS 78 INSPECT ELECTRICAL BONDS OR GROUNDS A24 78 ISOLATE DC POWER MALFUNCTIONS **B**51 72 **INSPECT WIRE BUNDLES OR HARNESSES** A26 72 PERFORM CORROSION CONTROL A29 72 INSPECT DC POWER COMPONENTS B45 PERFORM OPERATIONAL CHECKS OF BATTERY CHARGER 72 B55 SYSTEMS 67 PERFORM TIME COMPLIANCE TECHNICAL ORDERS (TCTOs) A32 MODIFICATIONS 67 REMOVE OR INSTALL BATTERY CHARGER SYSTEMS B60 67 APPLY SEALANT TO CONNECTORS OR RELAYS A3 61 INSPECT AC POWER COMPONENTS B43 PERFORM OPERATIONAL CHECKS OF EMERGENCY POWER 61 **B57 SYSTEMS** ISOLATE EXTERNAL POWER SYSTEM MALFUNCTIONS 61 B53 61 INSPECT BATTERY CHARGER SYSTEMS B44 61 REMOVE OR INSTALL EXTERNAL POWER COMPONENTS B63 FABRICATE WIRE BUNDLES OR HARNESSES 56 A22 FABRICATE ELECTRICAL LEADS 56 A20 ISOLATE EMERGENCY POWER MALFUNCTIONS, OTHER THAN 50 B52 BATTERIES 50 INSPECT EXTERNAL POWER COMPONENTS B47 50 INSPECT TEST EOUIPMENT A25

REPRESENTATIVE TASKS PERFORMED FLIGHTLINE (N=1,274)

| | | PERCENT MEMBERS |
|-------------|--|--------------------|
| TASK | <u>S</u> | PERFORMING |
| K193 | PERFORM OPERATIONAL CHECKS OF EXTERIOR LIGHTING | 97 |
| K194 | PERFORM OPERATIONAL CHECKS OF INTERIOR LIGHTING | 96 |
| A17 | CRIMP SPLICES OR TERMINALS TO WIRES | 95 |
| B54 | PERFORM OPERATIONAL CHECKS OF AC POWER SYSTEMS | 95 |
| B59 | REMOVE OR INSTALL AC POWER COMPONENTS | 95 |
| K195 | REMOVE OR INSTALL EXTERIOR LIGHTING COMPONENTS | 94 |
| K196 | REMOVE OR INSTALL INTERIOR LIGHTING COMPONENTS | 94 |
| B56 | PERFORM OPERATIONAL CHECKS OF DC POWER SYSTEMS | 94 |
| K189 | ISOLATE EXTERIOR LIGHTING MALFUNCTIONS | 94 |
| J178 | PERFORM OPERATIONAL CHECKS OF FIRE AND OVERHEAT | 93 |
| | WARNING SYSTEMS | |
| B61 | | 93 |
| R362 | PERFORM OPERATIONAL CHECKS OF AIR-CONDITIONING | 92 |
| V100 | SYSTEMS . | |
| K190 D96 | ISOLATE INTERIOR LIGHTING MALFUNCTIONS | 92 |
| D90 A4 | PERFORM OPERATIONAL CHECKS OF ANTI-SKID SYSTEMS ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS | 92 |
| R366 | REMOVE OR INSTALL AIR-CONDITIONING SYSTEM | 91 |
| 1000 | COMPONENTS | 91 |
| A11 | CLEAN CONNECTOR PLUGS | 00 |
| B49 | ISOLATE AC POWER MALFUNCTIONS | 90 |
| D102 | REMOVE OR INSTALL ANTI-SKID COMPONENTS | 90 90 |
| D84 | INSPECT ANTI-SKID COMPONENTS | 90 89 |
| R355 | ISOLATE AIR-CONDITIONING SYSTEM MALFUNCTIONS | 89 89 |
| A26 | INSPECT WIRE BUNDLES OR HARNESSES | 89 |
| R359 | PERFORM LEAKAGE CHECKS OF AIR-CONDITIONING SYSTEMS | 89 89 |
| D90 | ISOLATE ANTI-SKID MALFUNCTIONS | 89 |
| R352 | INSPECT AIR-CONDITIONING SYSTEMS | 88 |
| B51 | ISOLATE DC POWER MALFUNCTIONS | 88 |
| J177 | ISOLATE FIRE AND OVERHEAT DETECTION CIRCUIT MALFUNCTIONS | 88 |
| I171 | REMOVE OR INSTALL FIRE OR OVERHEAT SYSTEM COMPONENTS | 87 |

REPRESENTATIVE TASKS PERFORMED BACKSHOP (N=172)

PERCENT MEMBERS PERFORMING TASKS 94 CRIMP SPLICES OR TERMINALS TO WIRES A17 94 **CLEAN BATTERIES** H156 94 INSPECT LOX SERVICING CARTS N230 93 PERFORM LEAKAGE CHECKS OF LOX SERVICING CARTS N245 92 ASSEMBLE OR DISASSEMBLE BATTERIES H154 91 ASSEMBLE OR DISASSEMBLE CONNECTOR PLUGS A4 91 **INSPECT BATTERIES** H157 PERFORM OPERATIONAL CHECKS OF LOX SERVICING CARTS 89 N251 88 PERFORM CAPACITANCE TESTS AND SERVICE BATTERIES H163 87 ISOLATE LOX SERVICING CART MALFUNCTIONS N238 86 BENCH CHECK EXTERIOR LIGHTING COMPONENTS K185 REMOVE OR INSTALL LOX SERVICING CART COMPONENTS 81 N262 81 INSPECT GOX SERVICING CARTS N228 81 INSPECT WIRE BUNDLES OR HARNESSES A26 81 CLEAN CONNECTOR PLUGS A11 80 PURGE LOX SERVICING CARTS N259 ACCESS CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) 80 Y618 MENUS AND DATA SCREENS 77 ASSEMBLE OR DISASSEMBLE EXTERIOR LIGHTING K183 ASSEMBLIES PERFORM LEAKAGE CHECKS OF GOX SERVICING CARTS 77 N243 PERFORM OPERATIONAL CHECKS OF LIN SERVICING CARTS 76 S404 76 PERFORM OPERATIONAL CHECKS OF GOX SERVICING CARTS N249 INSPECT LIQUID NITROGEN SERVICING CARTS 74 S382 PERFORM LEAKAGE CHECKS OF LIN SERVICING CARTS 74 S398 BENCH CHECK INTERIOR LIGHTING COMPONENTS 73 K186 73 INSPECT BATTERY CHARGER ANALYZER COMPONENTS H158 73 A10 BENCH CHECK RELAYS 72 PURGE LIN SERVICING CARTS S407 70 ISOLATE GOX SERVICING CART MALFUNCTIONS N236

Average number of tasks performed = 119

A3

REPRESENTATIVE TASKS PERFORMED OXYGEN (N=12)

| TASK | S | PERCENT MEMBERS PERFORMING |
|------|---|----------------------------------|
| | | |
| H163 | PERFORM CAPACITANCE TESTS AND SERVICE BATTERIES | 100 |
| N245 | PERFORM LEAKAGE CHECKS OF LOX SERVICING CARTS | 100 |
| H154 | ASSEMBLE OR DISASSEMBLE BATTERIES | 92 |
| H156 | CLEAN BATTERIES | 92 |
| H157 | INSPECT BATTERIES | 92 |
| N230 | INSPECT LOX SERVICING CARTS | 92 |
| N251 | PERFORM OPERATIONAL CHECKS OF LOX SERVICING CARTS | 92 |
| N249 | PERFORM OPERATIONAL CHECKS OF GOX SERVICING CARTS | 92 |
| Y618 | ACCESS CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) MENUS AND DATA SCREENS | 92 |
| N259 | PURGE LOX SERVICING CARTS | 83 |
| N262 | REMOVE OR INSTALL LOX SERVICING CART COMPONENTS | 83 |
| N238 | ISOLATE LOX SERVICING CART MALFUNCTIONS | 83 |
| N243 | PERFORM LEAKAGE CHECKS OF GOX SERVICING CARTS | 83 |
| N260 | REMOVE OR INSTALL GOX SERVICING CART COMPONENTS | 75 |
| N236 | ISOLATE GOX SERVICING CART MALFUNCTIONS | 75 |
| N228 | INSPECT GOX SERVICING CARTS | 75 |
| H162 | ISOLATE BATTERY MALFUNCTIONS | 58 |
| X607 | EVALUATE SERVICEABILITY OF EQUIPMENT, TOOLS, PARTS, OR SUPPLIES | 58 |
| A29 | PERFORM CORROSION CONTROL | 58 |
| S413 | REMOVE OR INSTALL LIQUID NITROGEN SERVICING | 50 |
| | COMPONENTS | |
| S404 | PERFORM OPERATIONAL CHECKS OF LIN SERVICING CARTS | 50 |
| W596 | MAINTAIN TECHNICAL ORDER LIBRARIES | 50 |
| S407 | PURGE LIN SERVICING CARTS | 50 |
| X610 | INVENTORY AND STORE EQUIPMENT, TOOLS, PARTS, OR SUPPLIES | 50 |
| X612 | MAINTAIN BENCHSTOCK PARTS OR EQUIPMENT LEVELS | 50 |
| S373 | FILL CARBON DIOXIDE (CO2) LIFERAFT CYLINDERS | 50 |
| X604 | COORDINATE SUPPLY-RELATED MATTERS WITH APPROPRIATE AGENCIES | 50 |
| S382 | INSPECT LIQUID NITROGEN SERVICING CARTS | 42 |

REPRESENTATIVE TASKS PERFORMED TRAINING (N=30)

| | | PERCENT |
|----------------|---|-------------------|
| | | MEMBERS |
| TASKS | | PERFORMING |
| | | |
| V554 | CONDUCT FORMAL COURSE CLASSROOM TRAINING | 100 |
| V563 | DEVELOP TRAINING MATERIALS OR AIDS | 100 |
| V574 | PERSONALIZE LESSON PLANS | 97 |
| V549 | ADMINISTER OR SCORE TESTS | 93 |
| V559 | DEMONSTRATE OPERATION OF EQUIPMENT | 93 |
| V568 | EVALUATE PROGRESS OF TRAINEES | 87 |
| V562 | DEVELOP PERFORMANCE TESTS | 87 |
| V558 | DEMONSTRATE HOW TO LOCATE TECHNICAL INFORMATION | 77 |
| V561 | DEVELOP FORMAL COURSE CURRICULA, PLANS OF | 77 |
| | INSTRUCTIONS, (POIs), OR SPECIALTY TRAINING STANDARDS (STSs) | |
| U528 | INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY | 70 |
| 0328 | STANDARDS | |
| V564 | DEVELOP TRAINING PROGRAMS, PLANS, OR PROCEDURES | 70 |
| V 504 V 573 | MAINTAIN TRAINING RECORDS OR FILES | 70 |
| V566 | EVALUATE EFFECTIVENESS OF TRAINING PROGRAMS, PLANS, | 67 |
| v 500 | OR PROCEDURES | |
| U532 | PARTICIPATE IN GENERAL MEETINGS, SUCH AS STAFF | 67 |
| | MEETINGS, BRIEFINGS, CONFERENCES, OR WORKSHOPS, OTHER THAN CONDUCTING | |
| V556 | CONDUCT RESIDENT COURSE CLASSROOM TRAINING | 63 |
| V 556 V 572 | INSPECT TRAINING MATERIALS OR AIDS FOR OPERATION OR | 63 |
| V572 | SUITABILITY | |
| U479 | CONDUCT SAFETY INSPECTIONS OF EQUIPMENT OR | 60 |
| | FACILITIES | <i>(</i>) |
| V565 | ESTABLISH OR MAINTAIN STUDY REFERENCE FILES | 60 |
| V560 | DETERMINE TRAINING REQUIREMENTS | 60 |
| U485 | COUNSEL SUBORDINATES CONCERNING PERSONAL MATTERS | 60 |
| V553 | COMPLETE STUDENT ENTRY OR WITHDRAWAL FORMS | 53 |
| U4 8 0 | CONDUCT SELF-INSPECTIONS OR SELF-ASSESSMENTS | 53 |
| U478 | CONDUCT GENERAL MEETINGS, SUCH AS STAFF MEETINGS, BRIEFINGS, CONFERENCES, OR WORKSHOPS | 53 |
| W596 | MAINTAIN TECHNICAL ORDER LIBRARIES | 50 |
| V567 | EVALUATE PERSONNEL TO DETERMINE TRAINING NEEDS | 50 |
| V575 | PLAN OR SCHEDULE TRAINING | 50 |

REPRESENTATIVE TASKS PERFORMED QUALITY ASSURANCE INSPECTOR (N=11)

| TASK | 5 | PERCENT MEMBERS PERFORMING |
|--------|---|----------------------------------|
| Y618 | ACCESS CODE AUTOMATED MADITEMANOE OVOTEM (CANO) | 100 |
| 1010 | ACCESS CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) MENUS AND DATA SCREENS | 100 |
| W583 | COMPLETE ACCIDENT OR INCIDENT REPORTS | 100 |
| Y620 | ANALYZE CAMS DATA | 100 |
| Y629 | EVALUATE MAINTENANCE PROCEDURES | 91 |
| Y645 | REVIEW AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AFTO FORMS 781 SERIES | 91 |
| U479 | CONDUCT SAFETY INSPECTIONS OF EQUIPMENT OR | 91 |
| 1462.0 | FACILITIES | |
| Y638 | INITIATE TECHNICAL ORDER IMPROVEMENT REPORTS | 91 |
| Y637 | INITIATE OR ANNOTATE AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AFTO FORMS 781 SERIES | 91 |
| W600 | REVIEW PUBLISHING BULLETINS OR TECHNICAL ORDER CHANGES | 82 |
| U511 | EVALUATE JOB HAZARDS OR COMPLIANCE WITH AIR FORCE OCCUPATIONAL SAFETY AND HEALTH (AFOSH) PROGRAM | 82 |
| Y644 | RETRIEVE CAMS LISTINGS OR REPORTS | 82 |
| Y642 | PERFORM MAINTENANCE ACTIVITY INSPECTIONS OR SELF- INSPECTIONS | 82 |
| A26 | INSPECT WIRE BUNDLES OR HARNESSES | 82 |
| A25 | INSPECT TEST EQUIPMENT | 82 |
| T426 | INSPECT AIRFRAME OR AIRFRAME LINE REPLACEABLE UNITS (LRUs) | 82 |
| B43 | INSPECT AC POWER COMPONENTS | 82 |
| B45 | INSPECT DC POWER COMPONENTS | 82 |
| U539 | REVIEW DRAFTS OF REGULATIONS, MANUALS, OR OTHER DIRECTIVES | 82 |
| K188 | INSPECT INTERIOR LIGHTING COMPONENTS | 82 |
| J176 | INSPECT FIRE AND OVERHEAT DETECTION CIRCUIT COMPONENTS | 82 |
| P297 | INSPECT BLEED AIR SYSTEMS | 82 |
| B047 | INSPECT EXTERNAL POWER COMPONENTS | 82 |
| R352 | INSPECT AIR-CONDITIONING SYSTEMS | 82 |
| O270 | INSPECT CABIN OR CARGO PRESSURIZATION SYSTEMS | 82 |

REPRESENTATIVE TASKS PERFORMED SUPERVISORS (N=86)

| TASKS | · · · · | PERCENT MEMBERS PERFORMING |
|-------|--|---|
| | | • · · · · · · · · · · · · · · · · · · · |
| U543 | SUPERVISE MILITARY PERSONNEL | 94 |
| U488 | DETERMINE OR ESTABLISH WORK ASSIGNMENTS OR | 88 |
| | PRIORITIES | |
| U483 | CONDUCT SUPERVISORY PERFORMANCE FEEDBACK SESSIONS | 88 |
| U518 | EVALUATE PERSONNEL FOR COMPLIANCE WITH | 86 |
| | PERFORMANCE STANDARDS | |
| U492 | DEVELOP OR ESTABLISH WORK SCHEDULES | 85 |
| U546 | WRITE PERFORMANCE REPORTS OR SUPERVISORY | 84 |
| | APPRAISALS | 0.4 |
| U485 | COUNSEL SUBORDINATES CONCERNING PERSONAL MATTERS | 84 |
| U486 | DETERMINE OR ESTABLISH LOGISTICS REQUIREMENTS, SUCH | 80 |
| | AS PERSONNEL, EQUIPMENT, TOOLS, PARTS, SUPPLIES, OR | |
| | WORKSPACE | 79 |
| U475 | ASSIGN PERSONNEL TO WORK AREAS OR DUTY POSITIONS | . 79 |
| U480 | CONDUCT SELF-INSPECTIONS OR SELF-ASSESSMENTS | 78 |
| U532 | PARTICIPATE IN GENERAL MEETINGS, SUCH AS STAFF | /0 |
| | MEETINGS, BRIEFINGS, CONFERENCES, OR WORKSHOPS, | |
| 11500 | OTHER THAN CONDUCTING | 78 |
| U522 | EVALUATE WORK SCHEDULES DEVELOP OR ESTABLISH WORK METHODS OR PROCEDURES | 78 |
| U491 | CONDUCT GENERAL MEETINGS, SUCH AS STAFF MEETINGS, | 78 |
| U478 | BRIEFINGS, CONFERENCES, OR WORKSHOPS | |
| U519 | EVALUATE PERSONNEL FOR PROMOTION, DEMOTION, | 77 |
| 0319 | RECLASSIFICATION, OR SPECIAL AWARDS | |
| U537 | PLAN OR SCHEDULE WORK ASSIGNMENT OR PRIORITIES | 76 |
| U506 | ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES | 76 |
| U540 | SCHEDULE PERSONNEL FOR TEMPORARY DUTY (TDY) | 74 |
| 0540 | ASSIGNMENTS, LEAVES, OR PASSES | |
| U528 | INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY | 74 |
| 0020 | STANDARDS | |
| U482 | CONDUCT SUPERVISORY ORIENTATIONS FOR NEWLY | 74 |
| | ASSIGNED PERSONNEL | |
| Y618 | ACCESS CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) | 72 |
| | MENUS AND DATA SCREENS | |
| | | |

REPRESENTATIVE TASKS PERFORMED SAFETY INSPECTORS (N=12)

| | | PERCENT MEMBERS |
|--------------|--|--------------------|
| TASKS | S | PERFORMING |
| U532 | PARTICIPATE IN GENERAL MEETINGS, SUCH AS STAFF MEETINGS, BRIEFINGS, CONFERENCES, OR WORKSHOPS, OTHER THAN CONDUCTING | 92 |
| U47 8 | CONDUCT GENERAL MEETINGS, SUCH AS STAFF MEETINGS, BRIEFINGS, CONFERENCES, OR WORKSHOPS | 92 |
| U480 | CONDUCT SELF-INSPECTIONS OR SELF-ASSESSMENTS | 83 |
| U48 1 | CONDUCT STAFF ASSISTANCE VISITS, INSPECTIONS, OR AUDITS | 83 |
| U479 | CONDUCT SAFETY INSPECTIONS OF EQUIPMENT OR FACILITIES | 75 |
| U508 | EVALUATE ACCIDENT OR INCIDENT REPORTS | 75 |
| U511 | EVALUATE JOB HAZARDS OR COMPLIANCE WITH AIR FORCE OCCUPATIONAL SAFETY AND HEALTH (AFOSH) PROGRAM | 75 |
| U521 | EVALUATE SAFETY OR SECURITY PROGRAMS | 75 |
| U544 | WRITE INSPECTION REPORTS | 75 |
| U538 | PLAN SAFETY OR SECURITY PROGRAMS | 75 |
| U538 | PLAN SAFETY OR SECURITY PROGRAMS | 67 |
| W583 | COMPLETE ACCIDENT OR INCIDENT REPORTS | 67 |
| U530 | WRITE REPLIES TO INSPECTIONS REPORTS | 67 |
| U495 | DEVELOP SELF-INSPECTION OR SELF-ASSESSMENT PROGRAM CHECKLISTS | 67 |
| W594 | MAINTAIN OR UPDATE STATUS INDICATORS, SUCH AS BOARDS, GRAPHS, OR CHARTS | 67 |
| W593 | MAINTAIN ADMINISTRATIVE FILES | 67 |
| U510 | EVALUATE INSPECTION REPORT FINDINGS OR INSPECTIONS PROCEDURES | 58 |
| U530 | INVESTIGATE ACCIDENTS OR INCIDENTS | 58 |
| U498 | DRAFT AGENDA FOR GENERAL MEETINGS, SUCH AS STAFF MEETINGS, BRIEFINGS, CONFERENCES, OR WORKSHOPS | 58 |
| U505 | ESTABLISH ORGANIZATIONAL POLICIES, SUCH AS OPERATING INSTRUCTIONS (OIs) OR STANDARD OPERATING PROCEDURES (SOPs) | 58 |
| Y633 | IMPLEMENT GROUND SAFETY PROGRAMS OR PROCEDURES | 50 |