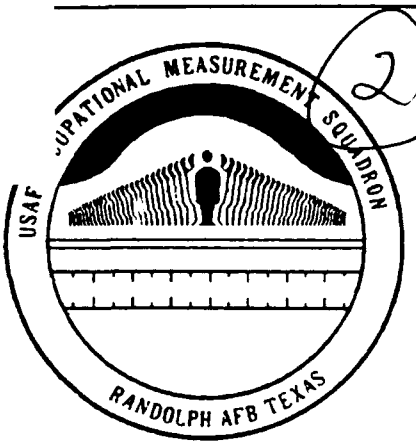

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UNITED STATES AIR FORCE

OCCUPATIONAL SURVEY REPORT

AIRLIFT AIRCRAFT MAINTENANCE

AFSC 457X2

AFPT 90-457-902

JULY 1992

OCCUPATIONAL ANALYSIS PROGRAM
USAF OCCUPATIONAL MEASUREMENT SQUADRON
AIR TRAINING COMMAND
RANDOLPH AFB, TEXAS 78150-5000

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PREFACE

This report presents the results of an Air Force Occupational Survey of the Airlift Aircraft Maintenance (AFSC 457X2) career ladder. Authority for conducting occupational surveys is contained in AFR 35-2. Computer products used in this report are available for use by operations and training officials.

Mr Don Cochran developed the survey instrument, Ms Olga Velez provided computer programming support, and Mr Richard Ramos provided administrative support. Second Lieutenant John Vice analyzed the data and wrote the final report. Mr Joseph S. Tartell, Chief, Occupational Analysis Flight, USAF Occupational Measurement Squadron, reviewed and approved this report for release.

Copies of this report are distributed to Air Staff sections and other interested training and management personnel. Additional copies may be requested from the Occupational Measurement Squadron, Attention: Chief, Occupational Analysis Flight (OMY), Randolph AFB, Texas 78150-5000.

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SUMMARY OF RESULTS

1. Survey Coverage: This report is based on data collected from 2,873 respondents, constituting 36 percent of all assigned AFSC 457X2 personnel and 57 percent of those receiving survey booklets.

2. Career Ladder Structure: Seventeen jobs were identified in the career ladder structure analysis. These jobs can be broadly grouped into aircraft maintenance, maintenance support, and staff positions. Fifty percent of the survey sample perform the Flightline Crew Chief job. Although the personnel in this job are assigned to many different bases and maintain various airlift aircraft, they all perform a core of common aircraft maintenance tasks.

3. Career Ladder Progression: The survey data show that Airlift Aircraft Maintenance personnel progress typically through the skill levels to the 7-skill level. Three- and 5-skill level personnel typically have the Flightline Crew Chief job which involves the more technical tasks, while 7-skill level members perform a mixture of technical and supervisory tasks.

4. Specialty Descriptions: AFR 39-1 Specialty Descriptions accurately describe jobs and tasks performed by AFSC 457X2 personnel.

5. Training Analysis: The majority of the Weapon System Supplement Specialty Training Standards and the Qualification Training Programs are supported by survey data when reviewed using criteria set forth in AFR 8-13/ATC Supplement 1 and ATCR 52-22. Unsupported elements and learning objectives need to be reviewed by functional managers and school personnel.

6. Job Satisfaction: Overall, AFSC 457X2 personnel were satisfied with their jobs. Most found their work interesting, felt their talents and training were being used well, and planned to reenlist. Exceptions to this trend were personnel in the -21 Alternate Mission Equipment Support, Composite Tool Kit Monitor, Wheel and Tire, and Supply jobs.

7. Discussion: Survey data show that the AFSC 457X2 career ladder structure is comprised of 17 jobs, with 1 job (Flightline Crew Chiefs) comprising 50 percent of survey respondents. Members progress typically through the specialty, and current AFR 39-1 Specialty Descriptions are well supported. In general, survey data support the current training documents, but review by training personnel is suggested.

OCCUPATIONAL SURVEY REPORT
AIRLIFT AIRCRAFT MAINTENANCE CAREER LADDER
(AFSC 457X2)

INTRODUCTION

This is a report of an occupational survey of the AFSC 457X2 Airlift Aircraft Maintenance career ladder. The objective of this study was to gather current occupational survey report (OSR) data for use in projecting, planning, and developing training for this career ladder. This is the first occupational survey of this career ladder since its conversion in October 1988 under Rivet Workforce.

Background

Currently, the AFSC 457X2 career ladder is shredded at the 3- and 5-skill levels only. The shreds are used to denote the type of aircraft maintained. Current shreds are:

45732A	C-130, C-23 aircraft
45732B	C-5 aircraft
45732C	C-9, C-20, C-22, C-140, C-141, T-39, T-43 aircraft
45732E	C-17 aircraft
45752A	C-130, C-23 aircraft
45752D	C-5, C-9, C-20, C-22, C-140, C-141, T-39, T-43 aircraft
45752E	C-17 aircraft

All shreds combine at the 7-skill level. For this survey, no information was gathered on the C-17 aircraft (E shred).

The AFR 39-1 Specialty Descriptions state that the 3- and 5-skill level personnel perform inspections, functional checks, and preventive maintenance on aircraft and installed equipment. In addition, they repair, maintain, and service aircraft and installed equipment. They also perform crew chief and maintenance staff functions.

At the 7-skill level, members troubleshoot, repair, service, and modify aircraft, components, systems, and installed equipment. They give advice on problems repairing, maintaining, servicing, and inspecting the installed

equipment, in addition to inspecting the aircraft, components, systems, and related equipment. AFR 39-1 describes these personnel as performing Expediter, Flight Chief, Line Chief, Crew Chief, and Maintenance staff functions.

ATC technical training for AFSC 457X2 is provided at Sheppard AFB TX. All personnel entering into the maintenance field undergo a general fundamentals course and then complete an AFSC-awarding course that covers the aircraft-specific shred they are to enter. The general course has the designation of J3AQR45020-000 and lasts 25 days. The three shred courses are:

a. Course 3ABR45732A, Apprentice Airlift Aircraft Maintenance Specialist (C-130). Course length is 17 days. Knowledge and hands-on training-oriented course.

b. Course 3ABR45732B, Apprentice Airlift Aircraft Maintenance Specialist (C-5). Course length is 12 days. Knowledge-only oriented course.

c. Course 3ABR45732C, Apprentice Airlift Aircraft Maintenance Specialist (C-141). Course length is 12 days. Knowledge-only oriented course.

These courses teach specific aircraft maintenance and system fundamentals, such as aircraft oxygen, egress, fuel systems, hydraulic and pneudraulic systems, landing gear, flight controls, and aircraft engines and related systems. Training also includes such subjects as maintenance management, aircraft and flightline safety (AFOSH), aircraft ground handling, and identification of corrosion. Upon completion of one of the above shred courses, the student is awarded the 3-skill level and is sent into the field.

When the personnel arrive at their base, MAC (now AMC) begins its own training known as the "qualification training program (QTP)." This training program involves both classroom and hands-on experiences and is basically a formalized on-the-job training (OJT) program. The duration of the training is variable depending on the student and the base, but a common length is 90 days. After completion of QTP training, 3-skill level members must undergo an evaluation period under their supervisor or trainer on the flightline before they are certified as qualified for award of the 5-skill level.

SURVEY METHODOLOGY

Inventory Development

Data for this survey were collected using USAF Job Inventory AFPT 90-457-902 (August 1990). The Inventory Developer reviewed pertinent career ladder documents and previously developed occupational data in order to prepare a tentative task list. This task list was refined and validated through personal interviews with 70 subject-matter experts (SME) at the following locations:

BASE	AIRCRAFT SUPPORTED
Sheppard AFB TX	Technical Training Center
Dyess AFB TX	C-130H
Altus AFB OK	C-5B, C-141B
Little Rock AFB AR	C-130E
Scott AFB IL	C-9A
Hurlburt Fld FL	AC-130H
Dover AFB DE	C-5B
McGuire AFB NJ	C-141B
Travis AFB CA	C-5, C-141
Mather AFB CA	T-43

The resulting job inventory contained a comprehensive listing of 998 tasks grouped under 16 duty headings and a background section requesting such information as grade, duty title, major command (MAJCOM) assignment, type of aircraft maintained, and type of maintenance materials, equipment, and tools used.

Survey Administration

From February through July 1991, Military Personnel Flights at operational bases worldwide administered the surveys to a stratified random sample of 457X2 personnel holding DAFSCs 45732A, 45732B, 45732C, 45752A, 45752D, and 45772. Personnel were selected from a computer-generated mailing list provided by the Armstrong Laboratory, Human Resources Directorate. Respondents were asked to complete an identification and biographical information section, then go through the booklet and mark all tasks they perform in their current job, and finally go back and rate each task they marked on a 9-point scale reflecting the relative amount of time spent on each task. Time spent ratings range from 1 (indicating a very small amount of time spent) to 9 (indicating a very large amount of time spent).

The computer calculated the relative percent time spent on all tasks for each respondent by first totaling ratings on all tasks, dividing the rating for each task by this total, and multiplying by 100. The percent time spent ratings from all inventories were then combined and used with percent member performing values to describe various groups in the career ladder.

Survey Sample

Personnel were selected to participate in this survey to ensure an accurate representation across MAJCOMs and paygrade groups. Due to the large number of assigned AFSC 457X2 personnel, a stratified random sampling process was used to select 5,000 survey participants. Table 1 reflects the percentage distribution, by MAJCOM, of assigned personnel in the career ladder, as well as the MAJCOM distribution of survey respondents in the final sample. The 2,873 respondents in the final sample represent 36 percent of the total assigned AFSC 457X2 personnel and 57 percent of those selected for the survey. Table 2 snows that the paygrade distribution in the sample is close to that of the total AFSC 457X2 population.

Data Processing and Analysis

Once the job inventories were received from the field, the booklets were screened for completeness and accuracy and optically scanned to create a complete case record for each respondent. Comprehensive Occupational Data Analysis Programs (CODAP) then created a job description for each respondent, as well as composite job descriptions for members of various demographic groups. These job descriptions were used for much of the analyses reported in this OSR.

Task Factor Administration

Personnel who make decisions about career ladder documents and training programs use task factor data (training emphasis (TE) and task difficulty (TD) ratings), as well as job descriptions. The survey process provides these data by asking selected E-6 and E-7 supervisors to complete either a TE or TD booklet. These booklets are processed separately from the job inventories, and TE and TD data, when applicable, are considered when analyzing other issues in the study.

Training Emphasis (TE). Training emphasis is defined as the amount of structured training that first-enlistment personnel need to perform tasks successfully. Structured training is defined as training provided by resident technical schools, field training detachments, mobile training teams, formal OJT, or any other organized training method. One hundred and twenty-nine experienced AFSC 457X2 noncommissioned officers (NCO) rated tasks in the inventory on a 10-point scale ranging from 0 (no training required) to 9 (high training emphasis required). Interrater agreement for these 129 raters was acceptable.

To better assist training developers, TE ratings were also obtained for each of the major aircraft groups (i.e., C-5, C-9, C-141, and C-130). All but the C-9 aircraft group had acceptable interrater agreement. Consequently, the aircraft-specific TE ratings are used in later sections of this OSR dealing with training.

TABLE 1

MAJCOM REPRESENTATION IN SAMPLE

COMMAND	PERCENT OF ASSIGNED	PERCENT OF SAMPLE
MAC	84	83
AFSOC	6	7
ATC	3	3
AFSC	2	2
TAC	2	3
USAFE	1	1
OTHER	2	1

TOTAL ASSIGNED - 8,017
TOTAL SURVEYED - 5,000
TOTAL IN SAMPLE - 2,873
PERCENT OF ASSIGNED IN SAMPLE - 36%
PERCENT OF SURVEYED IN SAMPLE - 57%

TABLE 2

PAYGRADE DISTRIBUTION OF SAMPLE

PAYGRA	PERCENT OF ASSIGNED	PERCENT OF SAMPLE
E-1 to E-3	21	17
E-4	30	29
E-5	26	28
E-6	15	17
E-7	8	9
E-8	-	-

- Indicates less than 1 percent

The mean TE rating for the total group was 2.88, with a standard deviation of 1.47. Any task with a rating of 4.35 or better is considered to have high training emphasis. The mean TE rating for C-5 aircraft was 3.03, with a standard deviation of 1.58. When considering training for C-5 personnel, any task with a rating of 4.61 or greater is considered to have high training emphasis. The mean TE rating for C-141 aircraft was 3.33, with a standard deviation of 1.73. Thus, for C-141 training, any tasks with a rating of 5.06 or higher are considered high in training emphasis. Finally, for C-130 aircraft training, the mean TE rating was 3.14, with a standard deviation of 1.45. Thus, any task with a rating of 4.59 or higher is considered high in training emphasis.

Task Difficulty (TD). Task difficulty is defined as an estimate of the length of time the average airman takes to learn how to perform each task listed in the inventory. One hundred and thirty-nine experienced AFSC 457X2 supervisors rated the difficulty of the tasks in the inventory on a 9-point scale ranging from 1 (easy to learn) to 9 (very difficult to learn). Inter-rater agreement for the 139 raters is also acceptable. TD ratings are normally adjusted so tasks of average difficulty have a value of 5.00 and a standard deviation of 1.00. Any task with a TD rating of 6.00 or greater is considered to be difficult to learn.

SPECIALTY JOBS
(Career Ladder Structure)

The first step in the analysis process is to identify the structure of the career ladder in terms of the jobs performed by the respondents. CODAP assists by creating an individual job description for each respondent based on the tasks performed and relative amount of time spent on the 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. This process continues until all respondents are included in a group.

The basic group used in the hierarchial clustering process is the job. 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 cluster. The structure of the career ladder is then defined in terms of jobs and clusters of jobs.

Overview

Responses from the survey respondents indicate a variety of jobs are performed by AFSC 457X2 personnel. Generally, the 17 jobs can be roughly grouped into broad categories of aircraft maintenance, maintenance support, and staff positions. Based on task similarity and relative time spent, the

division of jobs performed by AFSC 457X2 personnel is illustrated in Figure 1, and a listing of these jobs is provided below. The group number (GRP) or stage number (STG) shown by each title is a reference to computer-printed information; the number of personnel in each group (N) is also shown.

I.	FLIGHTLINE CREW CHIEF	(GRP137, N=1,437)
II.	SUPERVISOR	(STG078, N=285)
III.	AUTOMATED MAINTENANCE CONTROL	(STG276, N=193)
IV.	MAINTENANCE CONTROL COORDINATOR	(STG299, N=15)
V.	-21 ALTERNATE MISSION EQUIPMENT (AME) SUPPORT	(STG185, N=102)
VI.	COMPOSITE TOOL KIT (CTK) MONITOR	(STG102, N=94)
VII.	QUALITY ASSURANCE EVALUATION (QAE)	(STG333, N=61)
VIII.	TRANSIENT ALERT	(GRP139, N=51)
IX.	TECHNICAL ORDER MONITOR	(STG077, N=49)
X.	FLIGHTLINE EXPEDITOR	(STG270, N=40)
XI.	ISOCHRONAL INSPECTOR	(GRP138, N=38)
XII.	FLIGHTLINE INSPECTOR	(STG340, N=22)
XIII.	FLIGHT MECHANIC	(STG443, N=18)
XIV.	TRAINING INSTRUCTOR	(STG471, N=16)
XV.	WHEEL AND TIRE	(STG525, N=11)
XVI.	SUPPLY	(STG487, N=11)
XVII.	REFURBISHMENT MECHANIC	(STG399, N=10)

The respondents forming these groups account for 85 percent of the survey sample. The remaining 15 percent were performing tasks or series of tasks which did not group with any of the defined jobs. Some of the job titles reported by these personnel include Deficiency Analyst, Nonpowered Support Equipment Specialist or Technician, Supply Expeditor, Computer Operator, NCOIC Debrief, Dorm Manager, and Vehicle Control NCO.

DISRIBUTION OF AFSC 457X2 PERSONNEL ACROSS CAREER LADDER JOBS

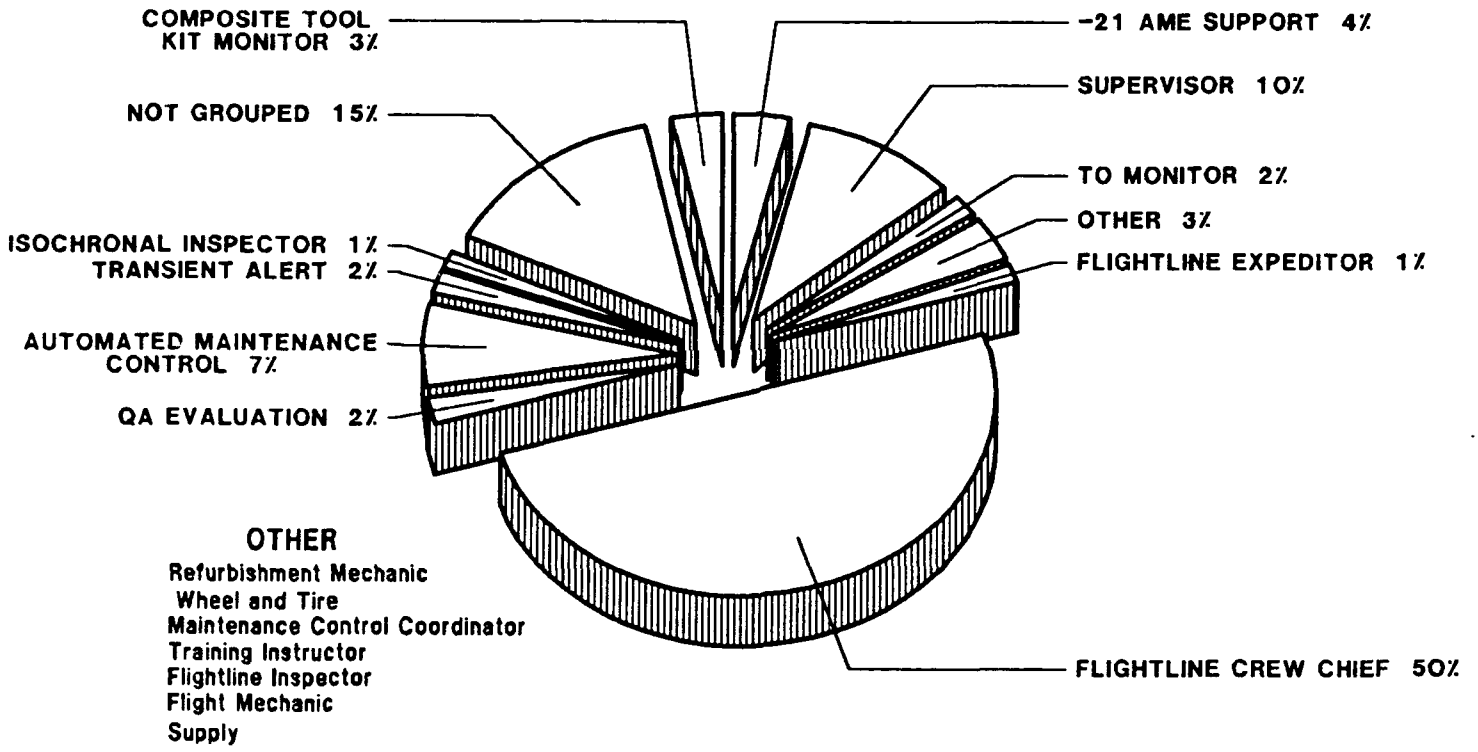

FIGURE 1

Group Descriptions

The following paragraphs contain brief descriptions of the jobs identified through the career ladder structure analysis. Table 3 contains the average percent time spent on duties by the career ladder jobs. Selected background data are included in Table 4. Representative tasks for all of these groups are contained in Appendix A.

I. FLIGHTLINE CREW CHIEF (GRP137, N=1,437). Fifty percent of the total survey sample perform essentially the core job of the specialty. Members are responsible for flightline maintenance on a wide variety of airlift aircraft, including the C-130, the C-141, and the C-5. The largest part of their job time (46 percent) is spent performing general airframe and aircraft maintenance, with smaller amounts of time being spent maintaining landing gear and utility systems, and performing general engine maintenance. Typical tasks performed include:

connect or disconnect external electrical aircraft power ground aircraft
launch or recover aircraft
operate aircraft interphones
marshal aircraft
perform single-point aircraft refueling or defueling
remove, replace, or reinstall aircraft hardware, such as screws or fasteners
position or remove aircraft chocks or pins
open or close engine cowlings
perform foreign object damage (FOD) walks

A little over half of these airmen (58 percent) hold the 5-skill level, while 29 percent hold the 7-skill level. The members of this group average 84 months TAFMS, 87 percent have a paygrade of E-5 or below, and 64 percent are in their first enlistment. Although several subgroups or job variations were identifiable within this large cluster, the predominant part of the job was essentially the same regardless of the aircraft on which they worked.

II. SUPERVISOR (STG078, N=285). These personnel represent 10 percent of the survey sample. The majority (84 percent) hold the 7-skill level and spend most of their time supervising, counseling, and evaluating subordinates, and establishing work methods and priorities. Eighty-six percent report supervising other personnel. Very little of their job time is spent actually performing specific maintenance actions on the aircraft. These personnel have an average TAFMS of 178 months, with 73 percent in paygrades E-6 and E-7. Common tasks performed include:

TABLE 3

AVERAGE PERCENT TIME SPENT ON DUTIES BY CAREER LADDER JOBS*

DUTIES	FLIGHTLINE CREW CHIEF (GRP137)	SUPERVISOR (STG078)	AUTOMATED MAINTENANCE CONTROL (STG276)	MAINTENANCE CONTROL COORDINATOR (STG299)	-21 AME SUPPORT (STG185)
A ORGANIZING AND PLANNING	2	17	17	43	6
B DIRECTING AND IMPLEMENTING	1	13	8	16	3
C INSPECTING AND EVALUATING	2	18	5	9	6
D TRAINING	1	8	5	8	2
E PERFORMING GENERAL ADMINISTRATIVE AND SUPPLY ACTIVITIES	5	22	14	19	14
F PERFORMING GENERAL AIRFRAME AND AIRCRAFT MAINTENANCE	45	11	1	3	18
G MAINTAINING LANDING GEAR SYSTEMS	11	1	-	-	-
H MAINTAINING UTILITY SYSTEMS	7	1	-	-	2
I MAINTAINING FLIGHT CONTROL SYSTEMS	4	-	-	-	-
J MAINTAINING PNEUDRAULIC SYSTEMS	5	-	-	-	-
K MAINTAINING FUEL SYSTEMS	3	-	-	-	-
L MAINTAINING ELECTRICAL SYSTEMS	5	1	-	-	-
M PERFORMING GENERAL ENGINE MAINTENANCE	6	1	-	-	-
N MAINTAINING NONPOWERED AEROSPACE GROUND EQUIPMENT (AGE)	1	1	-	-	1
O MAINTAINING -21 ALTERNATE MISSION EQUIPMENT (AME) AND DUAL RAIL CARGO HANDLING SYSTEMS	1	1	-	-	43
P PERFORMING CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) ACTIVITIES	1	5	50	1	4

* Columns may not add to 100 percent due to rounding
- Indicates less than 1 percent

TABLE 3 (CONTINUED)

AVERAGE PERCENT TIME SPENT ON DUTIES BY CAREER LADDER JOBS*

DUTIES	CTK MONITOR (STG102)	QUALITY ASSURANCE EVALUATION (STG333)	TRANSIENT ALERT (GRP139)	T.O. MONITOR (STG077)
A ORGANIZING AND PLANNING	8	4	2	17
B DIRECTING AND IMPLEMENTING	5	4	1	15
C INSPECTING AND EVALUATING	8	12	2	10
D TRAINING	3	3	2	8
E PERFORMING GENERAL ADMINISTRATIVE AND SUPPLY ACTIVITIES	63	11	10	46
F PERFORMING GENERAL AIRFRAME AND AIRCRAFT MAINTENANCE	7	20	57	1
G MAINTAINING LANDING GEAR SYSTEMS	-	13	9	-
H MAINTAINING UTILITY SYSTEMS	-	6	1	-
I MAINTAINING FLIGHT CONTROL SYSTEMS	-	5	2	-
J MAINTAINING *PNEUDRAULIC* SYSTEMS	-	7	3	-
K MAINTAINING FUEL SYSTEMS	-	2	2	-
L MAINTAINING ELECTRICAL SYSTEMS	-	4	2	-
M PERFORMING GENERAL ENGINE MAINTENANCE	-	6	2	-
N MAINTAINING NONPOWERED AEROSPACE GROUND EQUIPMENT (AGE)	-	-	3	-
O MAINTAINING -21 ALTERNATE MISSION EQUIPMENT (AME) AND DUAL RAIL CARGO HANDLING SYSTEMS	1	1	-	-
P PERFORMING CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) ACTIVITIES	4	2	2	3

* Columns may not add to 100 percent due to rounding
- Indicates less than 1 percent

TABLE 3 (CONTINUED)

AVERAGE PERCENT TIME SPENT ON DUTIES BY CAREER LADDER JOBS*

DUTIES	FLIGHTLINE EXPEDITOR (STG270)	ISOCHRONAL INSPECTOR (GRP138)	FLIGHTLINE INSPECTOR (STG340)	FLIGHT MECHANIC (STG443)	TRAINING INSTRUCTOR (STG471)
A ORGANIZING AND PLANNING					
B DIRECTING AND IMPLEMENTING	21	4	2	1	12
C INSPECTING AND EVALUATING	18	7	2	2	10
D TRAINING	2	3	1	3	53
E PERFORMING GENERAL ADMINISTRATIVE AND SUPPLY ACTIVITIES	17	11	5	2	7
F PERFORMING GENERAL AIRFRAME AND AIRCRAFT MAINTENANCE	10	41	76	27	3
G MAINTAINING LANDING GEAR SYSTEMS	1	3	6	12	-
H MAINTAINING UTILITY SYSTEMS	-	3	1	11	-
I MAINTAINING FLIGHT CONTROL SYSTEMS	-	4	1	10	-
J MAINTAINING PNEUDRAULIC SYSTEMS	-	2	-	10	-
K MAINTAINING FUEL SYSTEMS	-	2	-	3	-
L MAINTAINING ELECTRICAL SYSTEMS	-	4	1	8	-
M PERFORMING GENERAL ENGINE MAINTENANCE	1	4	1	6	-
N MAINTAINING NONPOWERED AEROSPACE GROUND EQUIPMENT (AGE)	-	1	-	-	-
O MAINTAINING -21 ALTERNATE MISSION EQUIPMENT (AME) AND DUAL RAIL CARGO HANDLING SYSTEMS	-	-	1	-	-
P PERFORMING CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) ACTIVITIES	5	5	-	-	3

* Columns may not add to 100 percent due to rounding
- Indicates less than 1 percent

TABLE 3 (CONTINUED)

AVERAGE PERCENT TIME SPENT ON DUTIES BY CAREER LADDER JOBS*

DUTIES	WHEEL AND TIRE (STG525)	SUPPLY (STG487)	REFURBISHMENT MECHANIC (STG399)
A ORGANIZING AND PLANNING	6	3	2
B DIRECTING AND IMPLEMENTING	3	2	1
C INSPECTING AND EVALUATING	6	4	[illegible]
D TRAINING	1	2	1
E PERFORMING GENERAL ADMINISTRATIVE AND SUPPLY ACTIVITIES	28	77	9
F PERFORMING GENERAL AIRFRAME AND AIRCRAFT MAINTENANCE	25	-	73
G MAINTAINING LANDING GEAR SYSTEMS	11	-	2
H MAINTAINING UTILITY SYSTEMS	-	-	1
I MAINTAINING FLIGHT CONTROL SYSTEMS	-	-	1
J MAINTAINING PNEUDRAULIC SYSTEMS	-	-	-
K MAINTAINING FUEL SYSTEMS	-	-	1
L MAINTAINING ELECTRICAL SYSTEMS	-	-	2
M PERFORMING GENERAL ENGINE MAINTENANCE	-	-	1
N MAINTAINING NONPOWERED AEROSPACE GROUND EQUIPMENT (AGE)	2	-	-
O MAINTAINING -21 ALTERNATE MISSION EQUIPMENT (AME) AND DUAL RAIL CARGO HANDLING SYSTEMS	-	-	1
P PERFORMING CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) ACTIVITIES	18	10	1

* Columns may not add to 100 percent due to rounding
- Indicates less than 1 percent

TABLE 4

SELECTED BACKGROUND DATA FOR 457X2 CAREER LADDER JOBS

	FLIGHTLINE CREW CHIEF	SUPERVISOR	AUTOMATED MAINTENANCE CONTROL	MAINTENANCE CONTROL COORDINATOR	-21 AME SUPPORT	CTK MONITOR
NUMBER IN GROUP	1,437	285	193	15	102	94
PERCENT OF SAMPLE	50%	10%	7%	-	4%	3%
DAFSC DISTRIBUTION						
45732A	3%	0%	0%	0%	1%	4%
45732B	5%	0%	0%	0%	2%	4%
45732C	6%	0%	0%	0%	9%	5%
45752A	19%	3%	18%	7%	23%	17%
45752D	38%	13%	27%	27%	44%	47%
45772	29%	84%	55%	66%	21%	23%
PAYGRADE DISTRIBUTION						
AIRMAN	24%	0%	4%	0%	24%	17%
E-4	33%	6%	22%	13%	47%	47%
E-5	31%	20%	47%	33%	22%	21%
E-6	10%	31%	22%	27%	7%	14%
E-7	2%	43%	5%	27%	0%	1%
E-8	0%	0%	0%	0%	0%	0%
E-9	0%	0%	0%	0%	0%	0%
AVERAGE NUMBER OF TASKS PERFORMED	289	100	35	33	65	38
AVERAGE MONTHS TAFMS	84	178	127	152	76	91
PERCENT IN FIRST ENLISTMENT	37%	1%	13%	0%	45%	32%
PERCENT SUPERVISING	43%	86%	46%	47%	47%	47%

- Less than 1 percent

TABLE 4 (CONTINUED)

SELECTED BACKGROUND DATA FOR 457X2 CAREER LADDER JOBS

	QUALITY ASSURANCE EVALUATION	TRANSIENT ALERT	T.O. MONITOR	FLIGHTLINE EXPEDITOR	ISOCHRONAL INSPECTOR
NUMBER IN GROUP	61	51	49	40	38
PERCENT OF SAMPLE	2%	2%	2%	1%	1%
DAFSC DISTRIBUTION					
45732A	0%	0%	0%	0%	0%
45732B	0%	2%	0%	0%	0%
45732C	0%	20%	2%	0%	0%
45752A	2%	6%	16%	0%	7%
45752D	7%	48%	47%	0%	33%
45772	91%	24%	35%	100%	60%
PAYGRADE DISTRIBUTION					
AIRMAN	2%	24%	8%	0%	3%
E-4	0%	29%	50%	0%	20%
E-5	21%	39%	24%	2%	37%
E-6	54%	8%	12%	40%	40%
E-7	21%	0%	4%	58%	0%
E-8	2%	0%	2%	0%	0%
E-9	0%	0%	0%	0%	0%
AVERAGE NUMBER OF TASKS PERFORMED	179	99	32	40	179
AVERAGE MONTHS TAFMS	171	87	102	198	139
PERCENT IN FIRST ENLISTMENT	2%	36%	22%	0%	6%
PERCENT SUPERVISING	39%	33%	43%	75%	83%

TABLE 4 (CONTINUED)

SELECTED BACKGROUND DATA FOR 457X2 CAREER LADDER JOBS

	FLIGHTLINE INSPECTOR	FLIGHT MECHANIC	TRAINING INSTRUCTOR	WHEEL AND TIRE	SUPPLY	REFURBISHMENT MECHANIC
NUMBER IN GROUP	22	18	16	11	11	10
PERCENT OF SAMPLE	-	-	-	-	-	-
DAFSC DISTRIBUTION						
45732A	9%	0%	0%	0%	0%	0%
45732B	0%	0%	0%	9%	18%	10%
45732C	32%	0%	0%	0%	0%	0%
45752A	5%	0%	0%	55%	0%	30%
45752D	36%	6%	19%	0%	55%	60%
45772	18%	94%	81%	36%	27%	0%
PAYGRADE DISTRIBUTION						
AIRMAN	49%	0%	0%	9%	18%	20%
E-4	18%	0%	0%	37%	55%	70%
E-5	23%	33%	19%	36%	18%	10%
E-6	5%	39%	43%	18%	9%	0%
E-7	5%	28%	38%	0%	0%	0%
E-8	0%	0%	0%	0%	0%	0%
E-9	0%	0%	0%	0%	0%	0%
AVERAGE NUMBER OF TASKS PERFORMED	97	191	64	49	31	107
AVERAGE MONTHS TAFMS	68	158	174	111	76	51
PERCENT IN FIRST ENLISTMENT	64%	0%	0%	18%	45%	50%
PERCENT SUPERVISING	32%	44%	75%	36%	27%	30%

- Less than 1 percent

determine work priorities
write EPRs
counsel personnel on personal or military-related matters
participate in meetings, such as staff meetings, briefings, conferences, or workshops, other than conducting
supervise Airlift Aircraft Maintenance Technicians (AFSC 45772)
establish work schedules
assign personnel to duty positions
inspect personnel for compliance with military standards

There are six distinct variations of supervisors. Members of all six perform a core of common supervisory tasks, but are distinguished slightly by such characteristics as the number of tasks performed, the time spent on common tasks, or an emphasis on unique tasks.

III. AUTOMATED MAINTENANCE CONTROL (STG276, N=193). Members with this job represent 7 percent of the survey sample and are responsible for coordinating maintenance activities. This includes such duties as acting as a liaison between maintenance and other agencies or recording the progress of maintenance on the flightline. Job incumbents spend the majority of their time (50 percent) working with the Core Automated Maintenance Systems (CAMS) computer system. This group performs such tasks as:

schedule aircraft discrepancies in CAMS
access core automated maintenance system (CAMS) data screens
update aircraft maintenance discrepancies in CAMS
perform CAMS inquiry for scheduled aircraft discrepancies
reschedule aircraft maintenance discrepancies in CAMS
perform CAMS inquiry for uncompleted maintenance event listings
perform CAMS inquiry to monitor delayed discrepancies prior to, during, and after scheduling maintenance

Over 90 percent of these respondents reported being either an E-4, E-5, or E-6, and more than half (55 percent) hold a 7-skill level. Forty-six percent are supervising, and the average TAFMS is 127 months.

IV. MAINTENANCE CONTROL COORDINATOR (STG299, N=15). This group of 15 job incumbents performs a function that is very similar to that of the Automated Maintenance Control personnel. They are distinguished in the amount of time they spend organizing and planning (43 percent) maintenance activities and an almost complete lack (less than 1 percent) of performing CAMS activities. Example tasks performed by this group include:

coordinate maintenance problems with maintenance control or appropriate agencies
coordinate aircraft launch and recovery times with aircrews or appropriate agencies
determine work priorities
coordinate cannibalization of parts with materiel support
direct flightline maintenance activities
assign maintenance and repair work
determine logistics requirements, such as personnel, space, equipment, or supplies
coordinate obtaining parts with base supply
adjust daily maintenance plans to meet operational commitments

All the members are E-4s or higher, and the majority (67 percent) hold a 7-skill level. Almost half (47 percent) are supervising, and they accomplish an average of only 33 tasks.

V. -21 ALTERNATE MISSION EQUIPMENT (AME) SUPPORT (STG185, N=102). Personnel with this job comprise 4 percent of the survey sample and are responsible for maintaining -21 AME and dual rail cargo handling systems on airlift aircraft. They also determine the layout and configuration of cargo compartments in accordance with the needs of the particular mission assigned. Not surprisingly, the largest percent of their job time (43 percent) is spent in Duty O, Maintaining -21 Alternate Mission Equipment (AME), and Dual Rail Cargo Handling Systems. Typical tasks performed include:

perform accountability inspections of -21 AME on aircraft
remove, replace, or reinstall -21 AME, other than seats or litters
configure cargo compartment seats or litters
inspect -21 alternate mission equipment (AME), other than emergency equipment
pick up or deliver -21 AME
reconfigure aircraft
perform -21 AME down loads for aircraft periodic depot maintenance (PDM)
perform -21 AME uploads for PDM

There are two distinct AME jobs performed. One is comprised of 18 members who perform only 27 tasks and report working primarily on the C-141 aircraft. The other job is broader, with 76 personnel accomplishing an average of 75 tasks and working on all the primary airlift aircraft.

VI. COMPOSITE TOOL KIT (CTK) MONITOR (STG102, N=94). Members with this job are responsible for the management and maintenance of tools and equipment. Sixty-three percent of their job time is spent performing general

administration and supply activities. These personnel are predominantly in paygrades E-4 or E-5 (78 percent), with 46 percent holding a 45752D AFSC. Average TAFMS is 91 months; 32 percent of the group are in their first enlistment, and they perform an average of 38 tasks. Common tasks include:

maintain CTKs
maintain benchstock parts or equipment levels
maintain tool cribs
inventory equipment, tools, or supplies
issue equipment and supplies
log turn-in of equipment and supplies
inventory CTKs

Survey data show there are three variations within this job. The members of the first are less experienced personnel who perform an average of only 18 tasks. The second variation is comprised of older more experienced personnel who accomplish an average of 59 tasks. The last variation is performed by a small number of members who perform more of a supervisory role in the tool crib area.

VII. QUALITY ASSURANCE EVALUATION (QAE) (STG333, N=61). Members with this job are responsible for inspecting and evaluating flightline maintenance programs and activities. Most report a job title of "Quality Assurance Evaluator or Inspector." These are fairly senior personnel, with most holding the 7-skill level. Seventy-five percent are in paygrades E-6 or E-7, and they have an average TAFMS of 171 months. Performing an average of 179 tasks, commonly performed activities include:

inspect flightline maintenance activities
perform quality verification inspections
review aircraft flight or maintenance records, such as AF Forms 781 series
inspect aircraft tires
inspect access panels
inspect access doors or hatches
evaluate personnel for compliance with performance standards or technical orders

VIII. TRANSIENT ALERT (GRP139, N=51). This group of 51 personnel report being assigned primarily to the Transient Alert or Transient Maintenance function. The job incumbents spend the majority of their relative duty time accomplishing tasks related to aircraft ground handling and servicing functions, as well as the associated supply and form and record documentation activities. Performing an average of 99 tasks, representative tasks include:

position AGE to aircraft
position fire extinguishers
perform over-the-wing aircraft refueling or defueling
position or remove aircraft chocks or pins
perform single-point aircraft refueling or defueling
perform FOD walks
tow nonpowered AGE
connect or disconnect external electrical aircraft power

Ninety-two percent of the personnel are E-5s, and almost half (49 percent) hold the 5-skill level.

IX. TECHNICAL ORDER MONITOR (STG077, N=49). Members with these jobs maintain the technical order library within the maintenance complex. Seventy-three percent are in paygrades E-4 and E-5. They perform an average of only 32 tasks. Examples of the most performed duty tasks include:

maintain technical order publication files
direct maintenance of technical order files
review technical order changes
initiate or annotate technical order system forms, such as AFTO Forms 22, 27, 110, 110A, 110B, and 131
review technical order system forms, such as AFTO Forms 22, 27, 110, 110A, 110B, and 131
complete AFTO Forms 187 (Technical Order Publications Request)
maintain time compliance technical orders

Within this cluster, there are two job variations, which differ on only two major factors. One variation accomplishes an average of 11 tasks, with 92 percent of its members not supervising. The other variation performs an average of 45 tasks, and 82 percent of its members are supervising.

X. FLIGHTLINE EXPEDITOR (STG270, N=40). These personnel are considered the flightline coordinators. Their primary function involves directing and coordinating activities of maintenance personnel. Expeditors perform their job by patrolling the flightline and relaying the operational needs of the flightline to the controllers. Most of these personnel are E-6s or E-7s and hold a 7-skill level. Common tasks performed include:

direct flightline maintenance activities
determine work priorities
assign maintenance and repair work

coordinate maintenance problems with maintenance control or appropriate agencies
clear Red X conditions
review aircraft flight or maintenance records, such as AF Forms 781 series
initiate or annotate aircraft flight or maintenance records, such as AF Forms 781 series
plan or schedule work priorities

XI. ISOCHRONAL INSPECTOR (GRP138, N=38). This job has 38 respondents and comprises less than 1 percent of the overall sample. They are responsible for aircraft preventive maintenance. At scheduled intervals, these personnel perform a thorough inspection of an aircraft and make necessary repairs. Almost all (97 percent) are E-4s, E-5s, or E-6s, and none hold the 3-skill level. Averaging 139 months TAFMS, only 6 percent of these members are in their first enlistment, while 83 percent are supervising. Typical tasks include:

remove, replace, or reinstall aircraft hardware, such as screws or fasteners
remove, replace, or reinstall access panels
connect or disconnect external electrical aircraft power
remove, replace, or reinstall wing leading edges
inspect aircraft for corrosion
lubricate aircraft components
complete danger tags, such as AF Forms 979 and 1492

XII. FLIGHTLINE INSPECTOR (STG340, N=22). This is a unique job performed by a small number of Flightline Crew Chiefs. What distinguishes this job is the amount of time members spend on Duty F, Performing General Airframe and Aircraft Maintenance. Many of the tasks they spend the most time on are inspections of the aircraft. Ninety-one percent reported that they perform pre, thru, and postflight inspections. Members are E-2s thru E-5s, with 64 percent in their first enlistment. The group has an average TAFMS of 68 months. Typical tasks are:

inspect fire extinguishers
inspect access panels
inspect cargo ramp seals
inspect aircraft LOX systems
inspect access doors or hatches
inspect crew entrance ladders
inspect pressure door seals, such as crew entrance door or visor seals
inspect liferaft release mechanisms, other than liferaft doors

XIII. FLIGHT MECHANIC (STG443, N=18). These 18 members perform a specialized maintenance function that involves more in-depth and time-consuming repair activities than those found in other flightline jobs. A majority of these personnel maintain the C-20 aircraft, and over half work at Andrews AFB. Common tasks include:

initiate or annotate aircraft flight or maintenance records, such as AF Forms 781 series
perform operational checks of aircraft batteries
perform single-point aircraft refueling or defueling
inspect hydraulic system plumbing
inspect aircraft shock struts
perform operational checks of pitch trim systems
inspect brake system components
perform operational checks of spoiler systems

All of these personnel are in paygrades E-5 and above. Ninety-four percent hold a 7-skill level. Average TAFMS is 158 months.

XIV. TRAINING INSTRUCTOR (STG471, N=16). These 16 incumbents reported spending over half (53 percent) of their relative duty time on Duty D, Training. This small group is comprised of a variety of instructors and trainers from 11 different bases including Sheppard, Travis, and Dyess AFBs. None of these personnel are in their first enlistment, 82 percent are in paygrade E-6 or E-7, and 81 percent hold a 7-skill level. Typical tasks performed are:

direct or implement training programs
counsel trainees on training progress
maintain training records, charts, graphs, or files
annotate training records
determine training requirements
develop formal course curricula, plans of instruction (POI), or specialty training standards (STS)
administer tests
evaluate progress of trainees

XV. WHEEL AND TIRE (STG525, N=11). The 11 members of this group perform a unique and specialized job involving aircraft wheel and tire assemblies. Seventy-two percent are in paygrades E-4 and E-5. Typical tasks performed include:

build up wheel and tire assemblies
inspect wheel assemblies
inspect wheel bearings
break down wheel and tire assemblies
inspect aircraft tires

pack wheel bearings
service aircraft tires
clean aircraft wheels
inspect aircraft wheel and tire bead breakers

XVI. SUPPLY (STG487, N=11). The 11 personnel in this job spend 75 percent of their time performing general administration and supply activities involving forms and records maintenance tasks. Typical tasks representative of this group include:

complete AFTO Forms 350 (Reparable Item Processing Tag)
annotate or complete AF Forms 2413 (Supply Control Log)
complete AF Forms 2005 (Issue/Turn-in Request)
review AF Forms 2413 (Supply Control Log)
research technical orders to identify components or items of equipment
coordinate obtaining parts with base supply
research microfiche files for supply requisition data
prepare documentation to turn in excess or surplus property

Nine of the incumbents are E-4s to E-6s and hold a 5- or 7-skill level. The members of this group have an average of 76 months TAFMS, and five are in their first enlistment.

XVII. REFURBISHMENT MECHANIC (STG399, N=10). These 10 people perform a job which is similiar in purpose to that of the preventive maintenance performed by the Isochronal Inspectors. Refurbishment occurs much less often and is accomplished in greater detail. Most of these personnel hold a 5-skill level, and half are in their first enlistment. Common tasks performed include:

refurbish aircraft interior or exterior surfaces
remove, replace, or reinstall aircraft hardware, such as screws or fasteners
lubricate aircraft components
clean interior of aircraft, such as crew compartments or cargo compartments
remove, replace, or reinstall access panels
inspect aircraft for corrosion
inspect seats, seatbelts, inertial reels, or shoulder harnesses

Summary

As noted earlier, 17 jobs were identified in the career ladder structure analysis. These jobs can be broadly grouped into aircraft maintenance, maintenance support, and staff positions. Fifty percent of the survey sample perform the Flightline Crew Chief job. Although the personnel in this job are assigned to many different bases and maintain various airlift aircraft, they all perform a core of common aircraft maintenance tasks.

CAREER LADDER PROGRESSION

Analysis of DAFSC groups, together with the analysis of the career ladder structure, is an important part of each occupational survey. The DAFSC analysis identifies differences in tasks performed by members of the various skill-level groups, which in turn may be used to determine how well career ladder documents, such as AFR 39-1 Specialty Descriptions and the STS, reflect what members of the various skill-level groups are doing.

The distribution of skill-level members across the 17 job groups is shown in Table 5, while the relative amounts of time the members of the various skill-level groups spend on duties are shown in Table 6. These data show more 3- and 5-skill level members are involved with the technical aspects of the career ladder, and 7-skill level personnel perform a mixture of technical and supervisory tasks.

SKILL-LEVEL DESCRIPTIONS

DAFSC 45732/45752. DAFSC 45732/45752 respondents comprise 59 percent of the survey sample. As shown in Table 5, most 3- and 5-skill level members have the Flightline Crew Chief job, with smaller percentages working in such areas as -21 AME Support, Transient Alert, or CTK Monitor. There were 246 3- and 5-skill level members that were not grouped into any cluster or independent job because of the diversity of tasks they perform. Representative tasks DAFSC 45732/52 members perform are listed in Table 7. Most of the tasks listed are core to the Flightline Crew Chief.

DAFSC 45772. Seven-skill level personnel constitute 41 percent of the sample and, as shown in Table 5, are involved in most of the jobs identified by survey data. Representative tasks performed by 7-skill level members are listed in Table 8 and include a mixture of technical and supervisory tasks. Table 9 lists examples of tasks that best differentiate between AFSC 45732/52 and 45772 personnel. Figures in the top portion of the table show a greater percentage of 3- and 5-skill level personnel perform the technical tasks, while figures in the lower half clearly show more 7-skill level personnel perform the supervisory and administrative tasks.

TABLE 5

DISTRIBUTION OF SKILL-LEVEL MEMBERS
ACROSS CAREER LADDER JOBS
(PERCENT)

JOB	45732A (N=55)	45732B (N=91)	45732C (N=147)	45752A (N=420)	45752D (N=977)	45772 (N=1,183)
FLIGHTLINE CREW CHIEF	82%	80%	59%	64%	56%	35%
SUPERVISOR	0	0	0	2%	4%	20%
AUTOMATED MAINTENANCE CONTROL	0	0	0	9%	5%	9%
MAINTENANCE CONTROL COORDINATOR	0	0	0	*	*	1%
-21 ALTERNATE MISSION EQUIPMENT (AME) SUPPORT	4%	2%	6%	5%	5%	2%
COMPOSITE TOOL KIT (CTK) MONITOR	7%	4%	3%	3%	4%	2%
QUALITY ASSURANCE EVALUATION (QAE)	0	0	0	*	*	5%
TRANSIENT ALERT	0	1%	7%	1%	3%	1%
TECHNICAL ORDER MONITOR	0	0	1%	2%	2%	1%
FLIGHTLINE EXPEDITOR	0	0	0	0	0	3%
ISOCHRONAL INSPECTOR	0	0	0	1%	1%	2%
FLIGHTLINE INSPECTOR	4%	0	5%	*	1%	*
FLIGHT MECHANIC	0	0	0	0	*	1%
TRAINING INSTRUCTOR	0	0	0	0	*	1%
WHEEL AND TIRE	0	1%	0	2%	0	*
SUPPLY	0	2%	0	0	1%	*
REFURBISHMENT MECHANIC	0	1%	0	1%	1%	0
NOT GROUPED	3%	9%	19%	10%	17%	17%

* Denotes less than 1 percent

TABLE 6

TIME SPENT ON DUTIES BY MEMBERS OF SKILL-LEVEL GROUPS
(RELATIVE PERCENT OF JOB TIME)

DUTIES	45732A (N=55)	45732B (N=91)	45732C (N=147)	45752A (N=420)	45752D (N=977)	45772 (N=1,183)
A ORGANIZING AND PLANNING	1	2	2	4	5	12
B DIRECTING AND IMPLEMENTING	0	1	0	2	3	8
C INSPECTING AND EVALUATING	1	2	2	2	4	10
D TRAINING	1	1	0	2	3	6
E PERFORMING GENERAL ADMINISTRATIVE AND SUPPLY ACTIVITIES	11	12	8	12	13	14
F PERFORMING GENERAL AIRFRAME AND AIRCRAFT MAINTENANCE	52	46	53	37	35	23
G MAINTAINING LANDING GEAR SYSTEMS	7	10	8	6	8	5
H MAINTAINING UTILITY SYSTEMS	6	6	3	5	4	3
I MAINTAINING FLIGHT CONTROL SYSTEMS	2	3	3	3	3	2
J MAINTAINING PNEUDRAULIC SYSTEMS	3	3	3	4	3	3
K MAINTAINING FUEL SYSTEMS	2	2	2	2	2	1
L MAINTAINING ELECTRICAL SYSTEMS	5	5	4	4	4	2
M PERFORMING GENERAL ENGINE MAINTENANCE	4	4	4	4	4	3
N MAINTAINING NONPOWERED AEROSPACE GROUND EQUIPMENT (AGE)	0	1	1	1	1	0
O MAINTAINING -21 ALTERNATE MISSION EQUIPMENT (AME) AND DUAL RAIL CARGO HANDLING SYSTEMS	3	2	6	3	3	1
P PERFORMING CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) ACTIVITIES	2	0	1	9	5	7

TABLE 7

REPRESENTATIVE TASKS PERFORMED BY 45732/52 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=1,690)
F306	CONNECT OR DISCONNECT EXTERNAL ELECTRICAL AIRCRAFT POWER	73
F370	PERFORM FOREIGN OBJECT DAMAGE (FOD) WALKS	72
F317	GROUND AIRCRAFT	69
F367	OPERATE AIRCRAFT INTERPHONES	68
F416	POSITION FIRE EXTINGUISHERS	66
F363	OPEN OR CLOSE ENGINE COWLINGS	66
F334	INSPECT FIRE EXTINGUISHERS	65
G523	INSPECT AIRCRAFT TIRES	65
F489	SERVICE AIRCRAFT TIRES	65
F434	REMOVE, REPLACE, OR REINSTALL AIRCRAFT HARDWARE, SUCH AS SCREWS OR FASTENERS	64
F360	LUBRICATE AIRCRAFT COMPONENTS	64
F319	INSPECT ACCESS PANELS	64
F511	WALK WINGS OR TAILS DURING AIRCRAFT TOWING OPERATIONS	64
F361	MARSHAL AIRCRAFT	64
F417	POSITION OR REMOVE AIRCRAFT CHOCKS OR PINS	64
E175	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	63
F411	PERFORM SINGLE-POINT AIRCRAFT REFUELING OR DEFUELING	63
F488	SERVICE AIRCRAFT SHOCK STRUTS	63
F318	INSPECT ACCESS DOORS OR HATCHES	63
F413	POSITION AGE TO AIRCRAFT	63
F358	LAUNCH OR RECOVER AIRCRAFT	62
F500	TOW AIRCRAFT	62
F487	SERVICE AIRCRAFT LOX SYSTEMS	62
F345	INSPECT SEATS, SEATBELTS, INERTIAL REELS, OR SHOULDER HARNESSES	61
F320	INSPECT AIRCRAFT FOR CORROSION	60
F494	SERVICE ENGINES WITH OIL	60
F344	INSPECT SEAT LOCKING MECHANISMS	60

TABLE 8

REPRESENTATIVE TASKS PERFORMED BY 45772 PERSONNEL

TASKS		PERCENT MEMBERS PERFORMING (N=1,183)
C106	WRITE EPRs	70
A10	DETERMINE WORK PRIORITIES	67
C65	CLEAR RED X CONDITIONS	60
A7	COORDINATE MAINTENANCE PROBLEMS WITH MAINTENANCE CONTROL OR APPROPRIATE AGENCIES	56
B33	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS	55
A1	ASSIGN MAINTENANCE AND REPAIR WORK	54
E259	REVIEW AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF FORMS 781 SERIES	54
D114	CONDUCT OJT	54
C98	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	54
D112	ANNOTATE TRAINING RECORDS	53
E175	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	53
A19	PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS, BRIEFINGS, CONFERENCES, OR WORKSHOPS, OTHER THAN CONDUCTING	52
A22	PLAN OR SCHEDULE WORK PRIORITIES	50
F370	PERFORM FOREIGN OBJECT DAMAGE (FOD) WALKS	50
A2	ASSIGN PERSONNEL TO DUTY POSITIONS	49
G523	INSPECT AIRCRAFT TIRES	49
A21	PLAN OR SCHEDULE WORK ASSIGNMENTS	48
C81	EVALUATE PERSONNEL FOR COMPLIANCE WITH PERFORMANCE STANDARDS OR TECHNICAL ORDERS	48
F319	INSPECT ACCESS PANELS	48
P982	ACCESS CAMS MENUS	47
C108	WRITE RECOMMENDATIONS FOR AWARDS OR DECORATIONS	47
F317	GROUND AIRCRAFT	46
F306	CONNECT OR DISCONNECT EXTERNAL ELECTRICAL AIRCRAFT POWER	46
F416	POSITION FIRE EXTINGUISHERS	46
F500	TOW AIRCRAFT	46
F318	INSPECT ACCESS DOORS OR HATCHES	46
F334	INSPECT FIRE EXTINGUISHERS	45
A17	ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES	45
E212	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	45

TABLE 9

TASKS WHICH BEST DIFFERENTIATE BETWEEN
DAFSC 45732/52 AND DAFSC 45772 PERSONNEL
(PERCENT MEMBERS PERFORMING)

TASKS		45732/52 (N=1,690)	45772 (N=1,183)	DIFFERENCE
F487	SERVICE AIRCRAFT LOX SYSTEMS	62	35	27
F306	CONNECT OR DISCONNECT EXTERNAL ELECTRICAL AIRCRAFT POWER	73	46	27
F360	LUBRICATE AIRCRAFT COMPONENTS	64	38	26
F304	CLEAN INTERIOR OF AIRCRAFT, SUCH AS CREW COMPARTMENTS OR CARGO COMPARTMENTS	55	29	26
F434	REMOVE, REPLACE, OR REINSTALL AIRCRAFT HARDWARE, SUCH AS SCREWS OR FASTENERS	64	38	26
F489	SERVICE AIRCRAFT TIRES	65	40	25
A21	PLAN OR SCHEDULE WORK ASSIGNMENTS	25	70	-45
B33	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS	19	60	-41
C98	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	10	47	-37
C108	WRITE RECOMMENDATIONS FOR AWARDS OR DECORATIONS	18	54	-36
C65	CLEAR RED X CONDITIONS	19	55	-36
C106	WRITE EPRs	13	48	-34

Summary

Survey data show Airlift Aircraft personnel progress typically through the skill levels to the 7-skill level. Three- and 5-skill level personnel typically have the Flightline Crew Chief job which involves the more technical tasks, while 7-skill level members perform a mixture of technical and supervisory tasks.

AFR 39-1 SPECIALTY JOB DESCRIPTION ANALYSIS

The current AFR 39-1 Specialty Descriptions for the career ladder were compared to job descriptions for each job identified and for each DAFSC group. Survey data support the jobs and tasks included in the current AFR 39-1 Specialty Descriptions.

TRAINING ANALYSIS

Occupational survey data are a source of information used to review training documents for the specialty. The three most commonly used types of data are: (1) percent of first-enlistment personnel performing tasks, (2) ratings of how much training emphasis tasks should receive in the basic resident course, and (3) ratings of relative task difficulty.

TE and TD data are secondary factors that are used in conjunction with percent members performing figures to determine what tasks should be included in entry-level training. Tasks with high TE and TD ratings and performed by moderate to high percentages of first-enlistment personnel are normally taught in resident courses, while tasks with high TE and TD ratings and low percentages of first-enlistment personnel performing may be more appropriate for OJT. Tasks with low TE and TD ratings are generally not included in any formal training, unless their inclusion can be justified by percent members performing, command concerns, or criticality.

There is an additional factor, the Automated Training Indicator (ATI) computed for each task in the inventory, that school personnel can use to assist in making training decisions. A computer program uses the percent of first-enlistment members performing each task, TE and TD ratings, and the Course Training Decision Table found in ATCR 52-22, Atch 1, to assign an ATI value to each task in the inventory. ATIs range from 1 to 18 and suggest what tasks are most appropriate for training and to what level. The decision table and explanation of the ATIs precede the listing of tasks in descending ATI order in the Training Extract. School personnel will find this table and listing valuable for making decisions about training documents.

Tables 10, 11, and 12, representing the C-5, C-141, and C-130 aircraft, provide a listing of the tasks with the highest TE ratings, with accompanying first-job (1-24 months TAFMS), first-enlistment (1-48 TAFMS), and TD ratings shown. These are primarily resources support tasks performed by high percentages of first-enlistment personnel. A significant number of the same tasks appeared repeatedly among the three listings. Tasks with the highest TD ratings are listed in Table 13. These are management, training, general engine maintenance, and flight control systems maintenance tasks. A very low percentage of first-term personnel perform these tasks. The 5- and 7-skill level respondents perform these tasks slightly more than the first-term personnel.

Four training extracts were developed for this study: one for the total career ladder and three others are for each of the major weapon systems--the C-5, the C-141, and the C-130. The training extract for the total sample contains a listing of tasks sorted in descending order of TE, TD, and ATI, a complete listing of all tasks in the inventory, a listing of the tasks performed by first-enlistment personnel, and a listing of the equipment used. The training extracts for each weapons system contain the same type of information, but with survey data specific to the particular aircraft (i.e., only personnel who reported working on the aircraft were included in that particular training extract). In addition, each extract contains listings of the Weapon System Supplement STS (WS Sup STS) and QTP, along with tasks matched to elements and learning objectives, and percent first-job, first-enlistment, and 5- and 7-skill level members performing each matched task. Copies of all extracts have been forwarded to technical school personnel for their use in reviewing training documents. A summary of OSR information is presented below.

First-Enlistment Personnel

Eight hundred and twelve respondents indicated they are in their first enlistment. As shown by Figure 2, 65 percent of first-term personnel are working as Flightline Crew Chiefs, 6 percent are working in the -21 AME Support job, and 4 percent in the CTK Monitor job. Smaller percentages of first-term respondents work in such jobs as Automated Maintenance Control, Transient Alert, Flightline Inspector, and Technical Order Monitor. As indicated in Table 14, the total sample first-enlistment personnel spend 44 percent of their duty time performing general airframe and aircraft maintenance and 11 percent of their time performing general administrative and supply activities. Representative tasks performed are listed in Table 15. Maintenance equipment and materials and tools used by first-enlistment personnel are listed in Table 16. The aircraft towbar, the floodlight set (NF-2), and the liquid oxygen cart are the most commonly used maintenance equipment in the total sample of first-enlistment personnel. Expectedly, handtools, lubricants, and torque wrenches are the most commonly used maintenance materials and tools. C-5, C-141, and C-130 specific percentages for each area are also shown on Tables 14, 15, and 16.

TABLE 10

SAMPLE OF TASKS WITH HIGHEST C-5 TRAINING EMPHASIS RATINGS

TASKS		TNG EMP	PERCENT MEMBERS PERFORMING 1ST JOB	1ST ENL	TSK DIF
F361	MARSHAL AIRCRAFT	7.11	93	88	3.53
F411	PERFORM SINGLE-POINT AIRCRAFT REFUELING OR DEFUELING	7.11	88	83	4.88
F487	SERVICE AIRCRAFT LOX SYSTEMS	6.98	94	87	4.76
F358	LAUNCH OR RECOVER AIRCRAFT	6.85	85	84	4.73
F306	CONNECT OR DISCONNECT EXTERNAL ELECTRICAL AIRCRAFT POWER	6.81	93	90	3.00
E175	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	6.79	76	76	3.77
F360	LUBRICATE AIRCRAFT COMPONENTS	6.53	80	80	4.35
F488	SERVICE AIRCRAFT SHOCK STRUTS	6.53	90	86	4.78
E174	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)	6.47	70	68	3.94
F500	TOW AIRCRAFT	6.47	78	74	5.06
G523	INSPECT AIRCRAFT TIRES	6.47	89	83	3.84
F489	SERVICE AIRCRAFT TIRES	6.38	94	88	3.72
F317	GROUND AIRCRAFT	6.32	93	89	1.63
F484	SERVICE AIRCRAFT ACCUMULATORS	6.28	88	84	4.16
F406	PERFORM PREUSE INSPECTION OF LOX SERVICING EQUIPMENT	6.23	75	76	3.96
F320	INSPECT AIRCRAFT FOR CORROSION	6.21	78	79	4.73
E259	REVIEW AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF FORMS 781 SERIES	6.19	69	73	4.82
F494	SERVICE ENGINES WITH OIL	6.17	91	83	3.12
F497	TAKE ENGINE OIL SAMPLES	6.17	88	83	3.31
F363	OPEN OR CLOSE ENGINE COWLINGS	6.11	88	88	3.45
F367	OPERATE AIRCRAFT INTERPHONES	6.09	93	93	3.31
E177	COMPLETE DANGER TAGS, SUCH AS AF FORMS 979 AND 1492	6.06	68	69	3.86
F319	INSPECT ACCESS PANELS	5.96	78	80	3.34
F475	REMOVE, REPLACE, OR REINSTALL WINDOWS	5.96	54	63	5.99
F288	ADJUST SLIDING WINDOW LINKAGE OR LATCHING MECHANISMS	5.89	58	61	4.63
E176	COMPLETE AIRCRAFT INSPECTION WORKCARDS	5.94	33	47	5.36
F322	INSPECT AIRCRAFT SHOCK STRUTS	5.89	86	83	4.13
F368	OPERATE AIRCRAFT RADIOS	5.87	89	86	3.76
F318	INSPECT ACCESS DOORS OR HATCHES	5.85	80	80	3.54
F407	PERFORM PREUSE INSPECTION OF MAINTENANCE STANDS	5.85	74	74	2.99

C-5: TE MEAN = 3.03, S.D. = 1.58
TD MEAN = 5.00, S.D. = 1.00

SAMPLE OF TASKS WITH HIGHEST C-141 TRAINING EMPHASIS RATINGS

TASKS		TNG EMP	PERCENT MEMBERS PERFORMING 1ST JOB	1ST ENL	TSK DIF
F361	MARSHAL AIRCRAFT	7.47	76	72	3.53
F360	LUBRICATE AIRCRAFT COMPONENTS	7.26	83	78	4.35
F411	PERFORM SINGLE-POINT AIRCRAFT REFUELING OR DEFUELING	7.21	67	67	4.88
F306	CONNECT OR DISCONNECT EXTERNAL ELECTRICAL AIRCRAFT POWER	7.17	83	83	3.00
F488	SERVICE AIRCRAFT SHOCK STRUTS	7.15	70	70	4.78
F487	SERVICE AIRCRAFT LOX SYSTEMS	7.11	75	72	4.76
F317	GROUND AIRCRAFT	7.02	81	76	1.63
F358	LAUNCH OR RECOVER AIRCRAFT	6.89	73	69	4.73
F320	INSPECT AIRCRAFT FOR CORROSION	6.85	66	65	4.73
F489	SERVICE AIRCRAFT TIRES	6.83	74	73	3.72
F500	TOW AIRCRAFT	6.83	61	65	5.06
F322	INSPECT AIRCRAFT SHOCK STRUTS	6.81	67	62	4.13
F321	INSPECT AIRCRAFT LOX SYSTEMS	6.68	58	52	4.54
F326	INSPECT CARGO DOORS OR RAMP MECHANICAL COMPONENTS	6.64	58	59	4.69
F339	INSPECT LIFERAFT RELEASE MECHANISMS, OTHER THAN LIFERAFT DOORS	6.64	52	53	4.45
G523	INSPECT AIRCRAFT TIRES	6.64	71	70	3.84
F319	INSPECT ACCESS PANELS	6.62	71	70	3.34
F484	SERVICE AIRCRAFT ACCUMULATORS	6.62	53	53	4.16
F316	DRAIN WATER FROM FUEL TANK SUMPS	6.60	70	69	2.68
F318	INSPECT ACCESS DOORS OR HATCHES	6.60	72	70	3.54
F294	BLEED BRAKE SYSTEMS	6.55	64	63	4.75
F353	INSPECT WINDOWS OR WINDSHIELDS	6.55	63	61	3.97
G543	INSPECT LANDING GEAR STRUTS	6.55	63	62	4.46
E175	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	6.53	42	52	3.77
F406	PERFORM PREUSE INSPECTION OF LOX SERVICING EQUIPMENT	6.53	55	58	3.96
E174	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)	6.49	28	33	3.94
G587	REMOVE, REPLACE, OR REINSTALL WHEEL AND TIRE ASSEMBLIES	6.47	48	53	5.22
F366	OPERATE AIRCRAFT COCKPIT CONTROLS DURING TOWING OPERATIONS	6.45	52	55	4.20
F338	INSPECT LIFERAFT DOOR RELEASE MECHANISMS	6.43	62	61	4.38
F363	OPEN OR CLOSE ENGINE COWLINGS	6.43	83	77	3.45

C-141: TE MEAN = 3.33, S.D. = 1.73
TD MEAN = 5.00, S.D. = 1.00

TABLE 12

SAMPLE OF TASKS WITH HIGHEST C-130 TRAINING EMPHASIS RATINGS

TASKS		TNG EMP	PERCENT MEMBERS PERFORMING 1ST JOB	1ST ENL	TSK DIF
F411	PERFORM SINGLE-POINT AIRCRAFT REFUELING OR DEFUELING	6.94	73	74	4.88
F306	CONNECT OR DISCONNECT EXTERNAL ELECTRICAL AIRCRAFT POWER	6.90	94	88	3.00
F470	REMOVE, REPLACE, OR REINSTALL TROOP DOOR NEGATOR SPRINGS	6.67	44	62	6.18
F487	SERVICE AIRCRAFT LOX SYSTEMS	6.63	77	77	4.76
F488	SERVICE AIRCRAFT SHOCK STRUTS	6.63	75	77	4.78
F358	LAUNCH OR RECOVER AIRCRAFT	6.37	77	75	4.73
F489	SERVICE AIRCRAFT TIRES	6.37	79	76	3.72
F361	MARSHAL AIRCRAFT	6.35	83	78	3.53
F500	TOW AIRCRAFT	6.35	73	78	5.06
F476	REMOVE, REPLACE, OR REINSTALL WINDSHIELDS	6.33	48	59	6.28
F475	REMOVE, REPLACE, OR REINSTALL WINDOWS	6.31	52	68	5.99
F360	LUBRICATE AIRCRAFT COMPONENTS	6.29	85	85	4.35
F456	REMOVE, REPLACE, OR REINSTALL LIFERAFTS	6.24	65	72	5.22
E259	REVIEW AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF FORMS 781 SERIES	6.22	50	55	4.82
F366	OPERATE AIRCRAFT COCKPIT CONTROLS DURING TOWING OPERATIONS	6.22	69	75	4.20
F320	INSPECT AIRCRAFT FOR CORROSION	6.18	69	78	4.73
F484	SERVICE AIRCRAFT ACCUMULATORS	6.18	77	78	4.16
F406	PERFORM PREUSE INSPECTION OF LOX SERVICING EQUIPMENT	6.12	79	76	3.96
F321	INSPECT AIRCRAFT LOX SYSTEMS	6.06	46	61	4.54
G568	REMOVE, REPLACE, OR REINSTALL BRAKE ASSEMBLIES	6.06	65	67	5.74
E175	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	6.04	67	75	3.77
F285	ADJUST LIFERAFT DOOR RELEASE LINKAGE OR LATCHING MECHANISMS	6.04	44	44	5.89
F282	ADJUST CREW ENTRANCE DOOR LATCHING MECHANISMS	6.02	33	41	5.91
F374	PERFORM OPERATIONAL CHECKS OF BLEED AIR SYSTEMS	5.98	73	72	4.97
L861	REMOVE, REPLACE, OR REINSTALL AIRCRAFT BATTERIES	5.96	73	73	4.29
F362	MOOR AIRCRAFT	5.94	83	78	3.71
F338	INSPECT LIFERAFT DOOR RELEASE MECHANISMS	5.92	58	72	4.38
F317	GROUND AIRCRAFT	5.90	85	82	1.63
F357	JACK OR LEVEL AIRCRAFT	5.90	77	75	5.99
F353	INSPECT WINDOWS OR WINDSHIELDS	5.86	73	76	3.97

C-130: TE MEAN = 3.14, S.D. = 1.45
TD MEAN = 5.00, S.D. = 1.00

TABLE 13

SAMPLE OF TASKS WITH HIGHEST TASK DIFFICULTY RATINGS

TASKS		TSK DIF	PERCENT MEMBERS PERFORMING 1ST JOB	1ST ENL	45752	45772	TNG EMP
G583	REMOVE, REPLACE, OR REINSTALL LANDING GEAR STRUTS	7.51	3	9	12	8	2.89
D123	DEVELOP FORMAL COURSE CURRICULA, PLANS OF INSTRUCTION (POI), OR SPECIALTY TRAINING STANDARDS (STS)	7.46	0	0	2	5	.40
M925	TROUBLESHOOT PROPELLER SYNCHROPHASER SYSTEMS	7.43	0	1	3	4	1.56
M921	TROUBLESHOOT ENGINE MALFUNCTIONS	7.29	1	6	13	16	2.51
M924	TROUBLESHOOT PROPELLER NEGATIVE TORQUE SYSTEMS	7.29	0	1	3	5	1.51
B36	DIRECT FLIGHTLINE MAINTENANCE ACTIVITIES	7.26	6	8	12	33	1.33
G584	REMOVE, REPLACE, OR REINSTALL LANDING GEAR TRUCKS (TORQUE STRUTS) OR BOGIES	7.22	1	7	9	6	2.71
A16	ESTABLISH ORGANIZATIONAL POLICIES, SUCH AS OFFICE INSTRUCTIONS (OI) AND STANDARD OPERATING PROCEDURES (SOP)	7.21	1	3	6	18	.59
B43	DRAFT HIGHER HEADQUARTERS DIRECTIVES	7.21	0	1	1	4	.29
D122	DEVELOP CAREER DEVELOPMENT COURSES (CDC) OR CURRICULA MATERIALS	7.20	0	1	2	3	.49
M900	PERFORM OPERATIONAL CHECKS OF ENGINES	7.18	6	12	26	28	3.78
M901	PERFORM OPERATIONAL CHECKS OF PROPELLERS	7.10	3	6	9	9	2.48
A8	DETERMINE LOGISTICS REQUIREMENTS, SUCH AS PERSONNEL, SPACE, EQUIPMENT, OR SUPPLIES	7.08	2	6	11	33	.98
I696	ADJUST SPOILER CONTROL MECHANISMS	7.05	2	2	4	4	2.04
D124	DEVELOP NEW EQUIPMENT TRAINING PROGRAMS	7.04	0	0	2	6	.64
I727	REMOVE, REPLACE, OR REINSTALL ELEVATORS	7.00	3	4	6	5	2.73

TE MEAN = 2.88, S.D. = 1.47
TD MEAN = 5.00, S.D. = 1.00

TABLE 13 (CONTINUED)

SAMPLE OF TASKS WITH HIGHEST TASK DIFFICULTY RATINGS

TASKS		TSK DIF	PERCENT MEMBERS PERFORMING 1ST JOB	1ST ENL	45752	45772	TNG EMP
C110	WRITE STAFF STUDIES, SURVEYS, OR SPECIAL REPORTS, OTHER THAN TRAINING REPORTS	6.98	0	0	2	9	.30
I685	ADJUST FLAPS	6.98	4	7	8	7	3.05
M922	TROUBLESHOOT ENGINE THROTTLES	6.98	0	3	9	11	2.39
I694	ADJUST SLAT OR FLAP SYSTEM COMPONENTS	6.97	1	3	4	5	2.07
I816	TROUBLESHOOT HYDRAULIC SYSTEMS USING SCHEMATICS	6.96	1	6	9	11	2.33
G594	TROUBLESHOOT LANDING GEAR CROSSWIND POSITIONING OR CASTERING SYSTEMS	6.96	1	2	4	3	1.68
I698	ADJUST SPOILERS	6.95	4	5	6	6	2.19
I695	ADJUST SLATS	6.93	2	2	3	2	1.83
I729	REMOVE, REPLACE, OR REINSTALL FLAPS	6.92	7	8	10	9	2.86
I693	ADJUST SLAT CONTROL MECHANISMS	6.92	0	1	2	2	1.90
I697	ADJUST SPOILER SYSTEM HYDRAULIC COMPONENTS	6.92	1	2	4	3	2.01
I684	ADJUST FLAP CONTROL MECHANISMS	6.91	1	5	8	7	2.92
I817	TROUBLESHOOT PNEUMATIC SYSTEMS USING SCHEMATICS	6.91	1	3	6	8	2.01
I692	ADJUST RUDDERS	6.90	1	4	5	6	2.61

TE MEAN = 2.88, S.D. = 1.47
TD MEAN = 5.00, S.D. = 1.00

DISRIBUTION OF FIRST-ENLISTMENT AFSC 457X2 PERSONNEL ACROSS CAREER LADDER JOBS

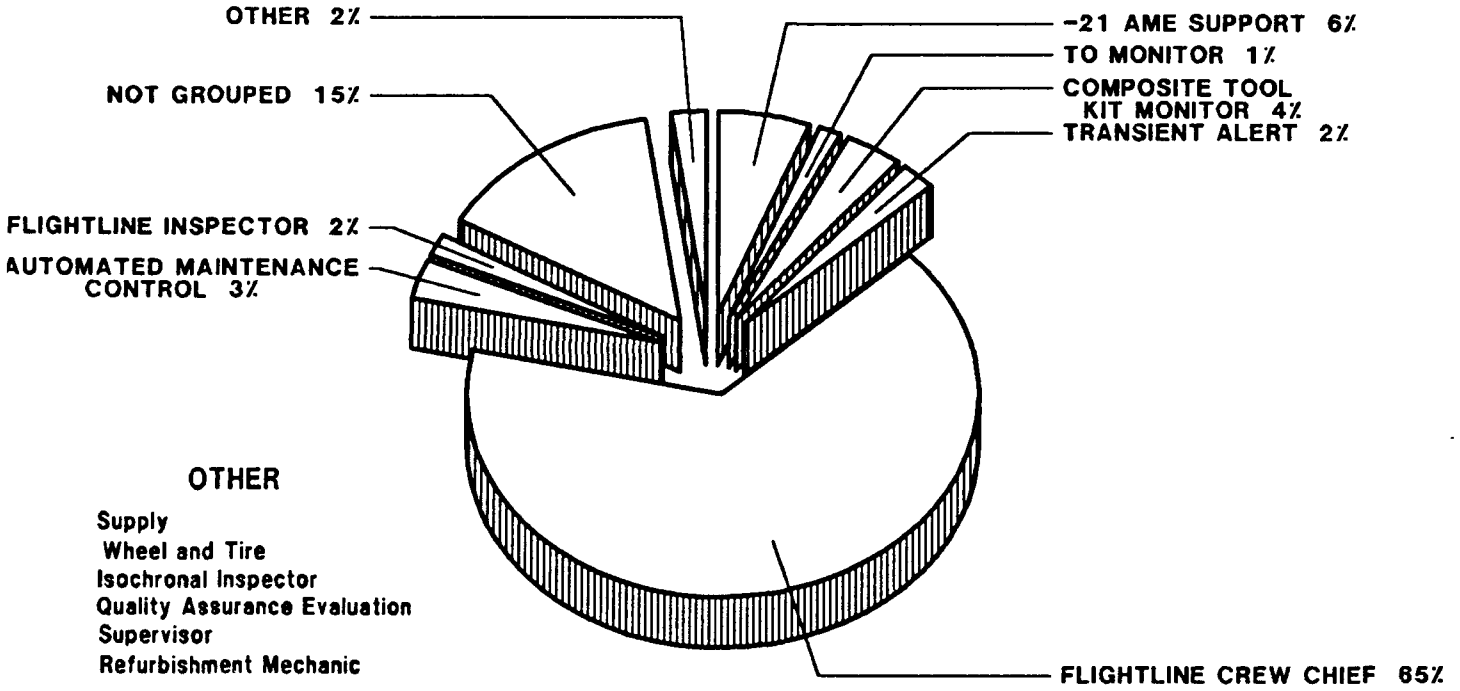

FIGURE 2

TABLE 14

RELATIVE PERCENT OF TIME SPENT ACROSS DUTIES BY
FIRST ENLISTMENT AFSC 457X2 PERSONNEL

DUTIES	TOTAL 1ST ENL (N=812)	C-5 1ST ENL (N=178)	C-141 1ST ENL (N=232)	C-130 1ST ENL (N=170)
A ORGANIZING AND PLANNING	2	2	2	1
B DIRECTING AND IMPLEMENTING	1	1	1	-
C INSPECTING AND EVALUATING	2	2	2	1
D TRAINING	1	1	1	-
E PERFORMING GENERAL ADMINISTRATIVE AND SUPPLY ACTIVITIES	11	7	10	7
F PERFORMING GENERAL AIRFRAME AND AIRCRAFT MAINTENANCE	44	45	49	48
G MAINTAINING LANDING GEAR SYSTEMS	9	13	9	7
H MAINTAINING UTILITY SYSTEMS	5	8	3	7
I MAINTAINING FLIGHT CONTROL SYSTEMS	3	3	3	3
J MAINTAINING PNEUDRAULIC SYSTEMS	4	4	3	4
K MAINTAINING FUEL SYSTEMS	2	2	2	2
L MAINTAINING ELECTRICAL SYSTEMS	4	5	4	5
M PERFORMING GENERAL ENGINE MAINTENANCE	4	5	4	4
N MAINTAINING NONPOWERED AEROSPACE GROUND EQUIPMENT (AGE)	1	1	1	-
O MAINTAINING -21 ALTERNATE MISSION EQUIPMENT (AME) AND DUAL RAIL CARGO HANDLING SYSTEMS	4	1	5	5
P PERFORMING CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) ACTIVITIES	4	-	1	5

- Indicates less than 1 percent

TABLE 15

REPRESENTATIVE TASKS PERFORMED BY
FIRST-ENLISTMENT 457X2 PERSONNEL
(PERCENT PERFORMING)

TASKS		TOTAL 1ST ENL (N=812)	C-5 1ST ENL (N=178)	C-141 1ST ENL (N=232)	C-130 1ST ENL (N=170)
F306	CONNECT OR DISCONNECT EXTERNAL ELECTRICAL AIRCRAFT POWER	79	90	83	88
F370	PERFORM FOREIGN OBJECT DAMAGE (FOD) WALKS	79	88	81	84
F317	GROUND AIRCRAFT	75	89	76	82
F367	OPERATE AIRCRAFT INTERPHONES	75	93	75	85
F363	OPEN OR CLOSE ENGINE COWLINGS	74	88	77	82
F361	MARSHAL AIRCRAFT	72	88	72	78
F360	LUBRICATE AIRCRAFT COMPONENTS	72	80	78	85
F511	WALK WINGS OR TAILS DURING AIRCRAFT TOWING OPERATIONS	71	82	68	81
F334	INSPECT FIRE EXTINGUISHERS	71	84	71	84
G523	INSPECT AIRCRAFT TIRES	71	83	70	79
F489	SERVICE AIRCRAFT TIRES	71	88	73	76
F434	REMOVE, REPLACE, OR REINSTALL AIRCRAFT HARDWARE, SUCH AS SCREWS OR FASTENERS	70	83	72	83
F416	POSITION FIRE EXTINGUISHERS	70	80	70	81
F319	INSPECT ACCESS PANELS	69	80	70	78
F417	POSITION OR REMOVE AIRCRAFT CHOCKS OR PINS	69	82	67	78
F318	INSPECT ACCESS DOORS OR HATCHES	69	80	70	78
F487	SERVICE AIRCRAFT LOX SYSTEMS	69	87	72	77
F488	SERVICE AIRCRAFT SHOCK STRUTS	69	86	70	77
F358	LAUNCH OR RECOVER AIRCRAFT	69	84	69	75
F413	POSITION AGE TO AIRCRAFT	68	79	68	75
F411	PERFORM SINGLE-POINT AIRCRAFT REFUELING OR DEFUELING	68	83	67	74
F494	SERVICE ENGINES WITH OIL	67	83	72	68
F345	INSPECT SEATS, SEATBELTS, INERTIAL REELS, OR SHOULDER HARNESSES	67	78	64	82
F320	INSPECT AIRCRAFT FOR CORROSION	66	79	65	78
F500	TOW AIRCRAFT	66	74	65	78
F322	INSPECT AIRCRAFT SHOCK STRUTS	66	83	62	75

TABLE 15 (CONTINUED)

REPRESENTATIVE TASKS PERFORMED BY
FIRST-ENLISTMENT 457X2 PERSONNEL
(PERCENT PERFORMING)

TASKS		TOTAL 1ST ENL (N=812)	C-5 1ST ENL (N=178)	C-141 1ST ENL (N=232)	C-130 1ST ENL (N=170)
L848	INSPECT EXTERNAL LIGHTS	65	74	65	75
G543	INSPECT LANDING GEAR STRUTS	65	83	62	74
F344	INSPECT SEAT LOCKING MECHANISMS	65	80	62	78
F353	INSPECT WINDOWS OR WINDSHIELDS	65	81	61	76
E175	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	64	76	52	75

TABLE 16

EQUIPMENT ITEMS USED BY MORE THAN 30 PERCENT OF FIRST-ENLISTMENT AFSC 457X2 PERSONNEL (PERCENT RESPONDING)

EQUIPMENT	TOTAL 1ST ENL (N=812)	C-5 1ST ENL (N=178)	C-141 1ST ENL (N=232)	C-130 1ST ENL (N=170)
AIR COMPRESSOR, MC-1A	57	60	54	68
AIR COMPRESSOR, MC-2A	36	38	34	48
AIRCRAFT TOWBAR	70	71	70	82
BOBTAIL JEEP	43	67	54	13
CALAVAR, M-125	24	76	9	4
CART, HYDRAULIC SERVICING	33	44	34	21
CART, NITROGEN PURGE	32	48	40	11
CART, SERVICING OIL	18	38	8	5
FLOODLIGHT SET, NF-2	72	85	73	78
GAS TURBINE COMPRESSOR, MA-1A	51	56	54	56
GENERATOR, A-M32A-86 (HOBART)	60	70	61	61
GROUND HEATER, H-1	64	72	63	71
HOIST, A-FRAME	1	15	9	38
LANDOLL, TM-1800	25	61	19	8
MAINTENANCE PLATFORM/STAND, POWERED	31	78	24	12
MAINTENANCE PLATFORM/STAND, NONPOWERED	61	79	56	64
NITROGEN TRAILER, GASEOUS	25	36	26	9
NITROGEN UNIT, LIQUID	29	35	47	4
OXYGEN CART, LIQUID	73	86	75	81
TOW VEHICLE, MB-2	31	8	31	54
TOW VEHICLE, MB-4	1	9	4	37
TOW VEHICLE, U-30	19	39	17	11
TRUMP DEICER	34	60	29	25
MAINTENANCE MATERIALS AND TOOLS				
ADHESIVES	76	85	83	76
CANNON PLUGS	50	62	50	47
CLEANING AGENTS	81	85	86	87
HANDTOOLS	92	97	97	96
LUBRICANTS	86	93	88	92
MULTIMETERS	21	27	19	46
RESTRAINT HARNESS	66	93	75	51
SEALANTS	81	94	87	81
SECURING DEVICES	71	80	75	77
SPECIAL TOOLS	75	81	79	76
TORQUE WRENCHES	84	94	87	90

Specialty Training Standard (STS)

For the purposes of reviewing the three WS Sup STS documents, USAFOMS personnel met with 3760 TTS/MAC Track personnel at Sheppard AFB, 463 LOGSS personnel at Dyess AFB, and 443 LSS/QTP personnel at Altus AFB. With their assistance, the tasks listed in the job inventory were matched to the STS line items. The end product of the match was used to produce a listing of the STS with job inventory tasks matched, percent members performing the tasks, and TE and TD ratings for each matched task. These listings were included in the training extracts sent to the school for review. Criteria set forth in AFR 8-13, AFR 8-13/ATC Supplement 1 (Attachment 1, paragraph A1-3c(4)), and ATCR 52-22 Attachment 1, were used to review the relevance of each element that had inventory tasks matched to it. General information, subject-matter knowledge, and supervisory responsibilities were not reviewed. Typically, tasks performed by 20 percent or more of personnel in appropriate experience or skill-level groups, such as first enlistment (1-48 months TAFMS) and 5- and 7-skill level groups, should be considered for inclusion in an STS. Likewise, tasks with less than 20 percent performing in all of these groups should be considered for deletion from an STS.

C-5 WS Sup STS. Paragraphs in this STS with performance codes were reviewed. Out of close to 200 matched line items, 30 were found to be unsupported by occupational survey data. Paragraphs 4 and 5 contain 19 of the unsupported elements. A sample of C-5 WS Sup STS unsupported elements, with matched tasks and survey data, is included in Table 17 for review. The entire STS, as listed in the training extract, should be examined by career field managers and training personnel to determine which items should remain in the STS.

Tasks not matched to any element of the STS were reviewed to determine if there were any tasks concentrated around any particular functions or jobs. Many tasks were found to be performed by more than the required 20 percent criteria group members. Table 18 contains several of the tasks with the highest percentages. Duty F, Performing General Airframe and Aircraft Maintenance, contained the largest number of tasks not matched. Functional personnel and SMEs need to review these unmatched tasks to determine if they suggest material that should be added to the STS.

C-141 WS Sup STS. Using the previously mentioned criteria, 35 elements were found unsupported, amounting to approximately 30 percent of the STS. Specifically, 17 unsupported elements were found within paragraph 4, Utility Systems, and 6 from paragraph 6, Hydraulic Systems. At least one unsupported element was found in every paragraph, except for paragraphs 9 and 10. A sample of these elements is included in Table 19 for review.

There are a number of tasks performed by more than 20 percent of criterion group members that are not matched to STS elements. Table 20 contains a partial listing of these tasks. As in the C-5 WS Sup STS, Duty F again contained the highest concentration of tasks not matched. These unmatched tasks need to be reviewed by SMEs and functional personnel for potential coverage in the STS.

TABLE 17

SAMPLE OF C-5 STS WEAPON SYSTEM SUPPLEMENT ELEMENTS REQUIRING REVIEW
(LESS THAN 20 PERCENT MEMBERS PERFORMING)

		PERCENT MEMBERS PERFORMING				
	C-5 TNG EMP	C-5 1ST JOB (N=80)	C-5 1ST ENL (N=178)	C-5 5-LVL (N=215)	C-5 7-LVL (N=135)	TSK DIF
1k. ASSIST IN WEIGHT AND BALANCE						
E207 INITIATE WEIGHT AND BALANCE FORMS, SUCH AS DD FORM 365 SERIES	.70	0	0	0	2	5.99
F513 WEIGHT AIRCRAFT	1.77	2	0	1	0	6.30
21. SERVICE CREW/PASSENGER COMFORT FACILITIES						
F491 SERVICE CREW OR PASSENGER COMFORT FACILITIES	2.02	5	6	5	6	3.79
4b(3). PRESSURIZATION SYSTEM						
H638 PERFORM OPERATIONAL CHECKS OF PRESSURIZATION SYSTEMS	2.91	9	11	19	19	5.63

C-5: TE MEAN = 3.03, S.D. = 1.58
TD MEAN = 5.00, S.D. = 1.00

TABLE 17 (CONTINUED)

SAMPLE OF C-5 STS WEAPON SYSTEM SUPPLEMENT ELEMENTS REQUIRING REVIEW
(LESS THAN 20 PERCENT MEMBERS PERFORMING)

		PERCENT MEMBERS PERFORMING				
	C-5 TNG EMP	C-5 1ST JOB (N=80)	C-5 1ST ENL (N=178)	C-5 5-LVL (N=215)	C-5 7-LVL (N=135)	TSK DIF
5d(1). SLATS						
I739 REMOVE, REPLACE, OR REINSTALL SLATS	2.89	9	15	16	18	6.44
7f(3). FILTERS						
M906 REMOVE, REPLACE, OR REINSTALL ENGINE FUEL FILTERS	3.15	3	10	16	13	4.92
M910 REMOVE, REPLACE, OR REINSTALL ENGINE OIL FILTERS	3.51	3	10	13	15	4.96
8h(2). INSPECT IFR SYSTEM						
K824 INSPECT IFR SYSTEMS, OTHER THAN IN-PROGRESS INSPECTIONS	3.15	3	3	5	14	4.72
K826 INSPECT IN-FLIGHT REFUELING SYSTEMS	3.49	10	8	10	18	4.79

C-5: TE MEAN = 3.03, S.D. = 1.58
TD MEAN = 5.00, S.D. = 1.00

TABLE 18

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 20 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-5 STS WS SUPPLEMENT

TASKS NOT REFERENCED		PERCENT MEMBERS PERFORMING				
		C-5 TNG EMP	C-5 1ST JOB (N=80)	C-5 1ST ENL (N=178)	C-5 5-LVL (N=215)	C-5 7-LVL (N=135)	TSK DIF
E259	REVIEW AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF FORMS 781 SERIES	6.19	69	73	72	61	4.82
F304	CLEAN INTERIOR OF AIRCRAFT, SUCH AS CREW COMPARTMENTS OR CARGO COMPARTMENTS	4.55	64	73	68	44	2.80
F325	INSPECT CARGO COMPARTMENT PRESSURE DOORS	5.49	75	75	71	57	4.50
F326	INSPECT CARGO DOORS OR RAMP MECHANICAL COMPONENTS	5.79	75	77	70	56	4.69
F327	INSPECT CARGO RAMP SEALS	5.53	80	83	76	61	3.94
F328	INSPECT CARGO VISOR MECHANICAL COMPONENTS	5.60	69	74	69	57	4.55
F329	INSPECT CREW ENTRANCE DOOR MECHANICAL COMPONENTS	5.64	64	73	70	56	4.43
F331	INSPECT CREW ENTRANCE LADDERS	5.23	70	75	71	58	3.54
F333	INSPECT CREW POSITION WORK TABLES	4.11	66	75	67	55	3.01
F334	INSPECT FIRE EXTINGUISHERS	5.45	81	84	81	60	2.83
F338	INSPECT LIFERAFT DOOR RELEASE MECHANISMS	5.62	74	69	58	40	4.38
F341	INSPECT PRESSURE DOOR SEALS, SUCH AS CREW ENTRANCE DOOR OR VISOR SEALS	5.13	79	81	76	58	3.82
F342	INSPECT RADOMES	5.17	66	72	69	53	3.91
F343	INSPECT RAM AIR TURBINE (RAT) DOORS	4.32	65	70	67	51	3.82
F344	INSPECT SEAT LOCKING MECHANISMS	5.11	76	80	74	61	3.69
F345	INSPECT SEATS, SEATBELTS, INERTIAL REELS, OR SHOULDER HARNESSES	5.13	75	78	72	61	3.65
F347	INSPECT SLIDING WINDOW MECHANISMS OR ROLLERS	5.62	66	72	70	57	3.75
F353	INSPECT WINDOWS OR WINDSHIELDS	5.72	81	81	73	61	3.97
F361	MARSHAL AIRCRAFT	7.11	93	88	75	61	3.53
F406	PERFORM PREUSE INSPECTION OF LOX SERVICING EQUIPMENT	6.23	75	76	67	56	3.96

C-5: TE MEAN = 3.03, S.D. = 1.58
TD MEAN = 5.00, S.D. = 1.00

TABLE 18 (CONTINUED)

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 20 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-5 STS WS SUPPLEMENT

TASKS NOT REFERENCED		C-5 TNG EMP	PERCENT MEMBERS PERFORMING C-5 1ST JOB (N=80)	C-5 1ST ENL (N=178)	C-5 5-LVL (N=215)	C-5 7-LVL (N=135)	TSK DIF
F407	PERFORM PREUSE INSPECTION OF MAINTENANCE STANDS	5.85	74	74	67	60	2.99
F413	POSITION AGE TO AIRCRAFT	5.72	88	79	76	64	2.39
F430	REMOVE, REPLACE, OR REINSTALL ACCESS PANELS	5.04	78	78	71	52	3.65
F434	REMOVE, REPLACE, OR REINSTALL AIRCRAFT HARDWARE, SUCH AS SCREWS OR FASTENERS	5.17	81	83	80	59	2.86
G551	INSPECT WHEEL ASSEMBLIES	5.40	70	71	67	56	4.19
H621	INSPECT PORTABLE OXYGEN BOTTLES	4.70	74	70	61	48	3.79
H662	SERVICE ATMs	5.26	86	82	74	56	3.69
H665	SERVICE PORTABLE OXYGEN BOTTLES	5.06	69	72	68	47	3.10
K848	INSPECT EXTERNAL LIGHTS	5.02	79	74	68	53	3.60
K851	INSPECT INTERNAL LIGHTS	4.66	75	71	65	55	3.61

C-5: TE MEAN = 3.03, S.D. = 1.58
TD MEAN = 5.00, S.D. = 1.00

TABLE 19

SAMPLE OF C-141 STS WEAPON SYSTEM SUPPLEMENT ELEMENTS REQUIRING REVIEW
(LESS THAN 20 PERCENT MEMBERS PERFORMING)

		PERCENT MEMBERS PERFORMING				
	C-141 TNG EMP	C-141 1ST JOB (N=102)	C-141 1ST ENL (N=232)	C-141 5-LVL (N=332)	C-141 7-LVL (N=190)	TSK DIF
1k. ASSIST IN WEIGHT AND BALANCE						
E207 INITIATE WEIGHT AND BALANCE RECORD FORMS, SUCH AS DD FORM 365 SERIES	1.02	1	1	2	2	5.99
F513 WEIGHT AIRCRAFT	2.28	5	9	11	8	6.30
21. SERVICE CREW/PASSENGER COMFORT FACILITIES						
F491 SERVICE CREW OR PASSENGER COMFORT FACILITIES	3.17	6	6	7	7	3.79
3b(4). ANTI SKID						
G558 PERFORM OPERATIONAL CHECKS OF LANDING GEAR ANTI SKID SYSTEMS	4.47	7	13	13	18	5.59

C-141: TE MEAN = 3.33, S.D. = 1.73
TD MEAN = 5.00, S.D. = 1.00

TABLE 19 (CONTINUED)

SAMPLE OF C-141 STS WEAPON SYSTEM SUPPLEMENT ELEMENTS REQUIRING REVIEW
(LESS THAN 20 PERCENT MEMBERS PERFORMING)

		PERCENT MEMBERS PERFORMING				
	C-141 TNG EMP	C-141 1ST JOB (N=102)	C-141 1ST ENL (N=232)	C-141 5-LVL (N=332)	C-141 7-LVL (N=190)	TSK DIF
4b(3). PRESSURIZATION SYSTEM						
H638 PERFORM OPERATIONAL CHECKS OF PRESSURIZATION SYSTEMS	3.34	3	5	6	11	5.63
5d(2). AILERON CONTROL WHEEL						
I721 REMOVE, REPLACE, OR REINSTALL AILERON CONTROL WHEELS (YOKE)	3.47	6	7	8	9	6.27
6g. DISCONNECT HYDRAULIC TEST STAND						
F307 CONNECT OR DISCONNECT HYDRAULIC TEST STANDS TO OR FROM AIRCRAFT	4.21	12	13	12	13	4.34
7j. PERFORM ENGINE REMOVAL PREPARATION						
M895 PERFORM ENGINE REMOVAL OR INSTALLATION PREPARATION	4.09	10	17	14	12	6.41

C-141: TE MEAN = 3.33, S.D. = 1.73
TD MEAN = 5.00, S.D. = 1.00

TABLE 20

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 20 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-141 WS SUPPLEMENT

TASKS NOT REFERENCED		C-141 TNG EMP	PERCENT MEMBERS PERFORMING C-141 1ST JOB (N=102)	C-141 1ST ENL (N=232)	C-141 5-LVL (N=332)	C-141 7-LVL (N=190)	TSK DIF
E212	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	5.98	44	52	54	49	3.07
F301	CLEAN AIRCRAFT TRANSPARENT SURFACES	4.96	52	54	50	36	2.77
F325	INSPECT CARGO COMPARTMENT PRESSURE DOORS	6.23	62	61	56	47	4.50
F326	INSPECT CARGO DOORS OR RAMP MECHANICAL COMPONENTS	6.64	58	59	55	48	4.69
F327	INSPECT CARGO RAMP SEALS	6.19	60	61	58	48	3.94
F329	INSPECT CREW ENTRANCE DOOR MECHANICAL COMPONENTS	6.40	58	59	55	42	4.43
F330	INSPECT CREW ENTRANCE DOOR SYSTEMS	5.87	59	52	49	39	4.43
F333	INSPECT CREW POSITION WORK TABLES	4.74	52	52	49	36	3.01
F335	INSPECT FLIGHT STATION OR TROOP COMPARTMENT LADDER SYSTEMS	5.13	53	50	45	31	3.31
F338	INSPECT LIFERAFT DOOR RELEASE MECHANISMS	6.43	62	61	56	42	4.38
F344	INSPECT SEAT LOCKING MECHANISMS	6.28	63	62	59	44	3.69
F345	INSPECT SEATS, SEATBELTS, INERTIAL REELS, OR SHOULDER HARNESSES	6.11	67	64	60	47	3.65
F353	INSPECT WINDOWS OR WINDSHIELDS	6.55	63	61	57	49	3.97
F360	LUBRICATE AIRCRAFT COMPONENTS	7.26	83	78	70	55	4.35
F361	MARSHAL AIRCRAFT	7.47	76	72	61	49	3.53
F365	OPEN OR CLOSE TAIL CONES	5.51	60	62	60	44	3.86
F376	PERFORM OPERATIONAL CHECKS OF CARGO LOADING STABILIZER STRUTS	5.60	58	56	53	42	3.86
F386	PERFORM OPERATIONAL CHECKS OF SEAT ADJUSTMENT SYSTEMS	5.28	56	56	49	40	3.90
F406	PERFORM PREUSE INSPECTION OF LOX SERVICING EQUIPMENT	6.53	55	58	56	45	3.96
F407	PERFORM PREUSE INSPECTION OF MAINTENANCE STANDS	5.94	50	57	58	51	2.99
F413	POSITION AGE TO AIRCRAFT	5.96	70	68	62	55	2.39

C-141: TE MEAN = 3.33, S.D. = 1.73
TD MEAN = 5.00, S.D. = 1.00

TABLE 20 (CONTINUED)

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 20 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-141 WS SUPPLEMENT

TASKS NOT REFERENCED		C-141 TNG EMP	PERCENT MEMBERS PERFORMING C-141 1ST JOB (N=102)	C-141 1ST ENL (N=232)	C-141 5-LVL (N=332)	C-141 7-LVL (N=190)	TSK DIF
F430	REMOVE, REPLACE, OR REINSTALL ACCESS PANELS	5.83	60	61	61	46	3.65
F434	REMOVE, REPLACE, OR REINSTALL AIRCRAFT HARDWARE, SUCH AS SCREWS OR FASTENERS	5.70	75	72	68	51	2.86
F447	REMOVE, REPLACE, OR REINSTALL CREW ENTRANCE LADDERS	4.77	52	56	52	39	4.39
F449	REMOVE, REPLACE, OR REINSTALL CREW SEATS	5.74	58	61	58	43	4.11
F458	REMOVE, REPLACE, OR REINSTALL RADOMES	5.70	54	56	53	41	5.08
F467	REMOVE, REPLACE, OR REINSTALL TAIL CONES	5.15	48	56	55	36	4.67
F477	REMOVE, REPLACE, OR REINSTALL WING LEADING EDGES	5.81	57	63	62	46	5.41
F501	TOW NONPOWERED AGE	4.55	48	54	48	45	3.03
G552	INSPECT WHEEL BEARINGS	5.32	49	50	44	35	4.32

C-141: TE MEAN = 3.33, S.D. = 1.73
TD MEAN = 5.00, S.D. = 1.00

C-130 WS Sup STS. Upon review, the C-130 STS yielded 15 elements unsupported under the review criteria. Paragraphs 3 (Landing Gear Systems), 4 (Utility Systems), and 6 (Pneudraulic Systems) contain most of the elements needing review. Examples of these can be seen in Table 21.

Table 22 contains a short listing of tasks not matched to the C-130 WS Sup STS. These tasks are contained under several duty categories, but Duty F (General Airframe and Aircraft Maintenance), Duty L (Maintaining Electrical Systems), and Duty P (Performing CAMS Activities) contain a high number of unmatched tasks. SMEs and functional personnel should also review these tasks for possible inclusion in the STS.

STS Summary

Overall, a majority of the matched portions of the three WS Sup STSs are supported by survey data using criteria set forth in AFR 8-13/ATC Sup 1 and ATCR 52-22, Atch 1. Many of the unsupported areas are the same in all the three Weapon Systems Supplements, specifically paragraphs 4 and 6 which repeatedly revealed low percent members performing matched tasks. Also, a large number of tasks in Duty F were unmatched to all three documents.

Qualification Training Program (QTP)

Normally, the basic ABR courses taught at Sheppard AFB would have been reviewed for this report. However, since these courses primarily teach fundamentals knowledge rather than "hands-on" training, a review against OSR data was not conducted. Since most of the "hands-on" training for this AFSC occurs at the base of assignment under the QTP for each of the major aircraft, an in-depth review of these programs was conducted for this report.

The same personnel at Altus, Dyess, and Sheppard AFBs who reviewed the WS Sup STS documents also matched the inventory tasks to learning objectives of the QTPs. A computer product was created for the QTPs listing each learning objective, tasks matched, percent first-job and first-enlistment members performing, and TD ratings. Learning objectives with tasks matched were reviewed using criteria found in ATCR 52-22, Attachment 1 (Feb 89). Any objective matched to tasks performed by less than 30 percent first-job or first-enlistment members is considered unsupported and should be reviewed by training personnel.

C-5 QTP. Using the criteria set forth in ATCR 52-22, all but eight objectives matched to tasks were supported. The unsupported objectives are: I 4E, Supply Form Documentation; I 4F, Technical Orders; I 4G, AFTO Forms 244, 245 (AGE Documentation); I 4H, Initiate A Material Deficiency Report (MDR); I 13B(1), Remove and install main landing gear doors (T.O. 1C-5A-2-10); I 13(10), Remove/replace and stow descent reels (T.O. 1C-5A-2-2); I 13C(4), Remove and install an engine starter control valve (T.O. 1C-5A-2-4); and I 13C(6), Remove and replace engine fluid filters (ENG, CSD, TR, FUEL). A

TABLE 21

SAMPLE OF C-130 STS WEAPON SYSTEM SUPPLEMENT ELEMENTS REQUIRING REVIEW
(LESS THAN 20 PERCENT MEMBERS PERFORMING)

		PERCENT MEMBERS PERFORMING				
	C-130 TNG EMP	C-130 1ST JOB (N=48)	C-130 1ST ENL (N=170)	C-130 5-LVL (N=281)	C-130 7-LVL (N=196)	TSK DIF
3c(1). LANDING GEAR SYSTEM						
F296 BLEED PNEUDRAULIC SYSTEMS	3.80	8	19	27	23	5.59
4c(3). PRESSURIZATION SYSTEM						
H622 INSPECT PRESSURIZATION SYSTEM	3.31	4	19	24	24	5.23
5c(2). TRIM TAB ACTUATORS						
I744 REMOVE, REPLACE, OR REINSTALL TRIM TAB ACTUATORS	3.18	2	11	16	12	6.08
6d(3). FITTINGS						
J803 REMOVE, REPLACE, OR REINSTALL HYDRAULIC SYSTEM PLUMBING, SUCH AS WIGGIN FITTINGS AND SWIVELS	3.18	13	12	14	11	5.19

C-130: TE MEAN = 3.14, S.D. = 1.45
TD MEAN = 5.00, S.D. = 1.00

TABLE 21 (CONTINUED)

SAMPLE OF C-130 STS WEAPON SYSTEM SUPPLEMENT ELEMENTS REQUIRING REVIEW
(LESS THAN 20 PERCENT MEMBERS PERFORMING)

			PERCENT MEMBERS PERFORMING				
		C-130 TNG EMP	C-130 1ST JOB (N=48)	C-130 1ST ENL (N=170)	C-130 5-LVL (N=281)	C-130 7-LVL (N=196)	TSK DIF
8e.	TROUBLE PROPELLER SYSTEM						
M924	TROUBLESHOOT PROPELLER NEGATIVE TORQUE SYSTEMS	2.49	0	4	12	16	7.29
M925	TROUBLESHOOT PROPELLER SYNCHROPHASER SYSTEMS	2.65	0	3	13	16	7.43
9g(2).	INSPECT IFR SYSTEM						
K824	INSPECT IFR SYSTEMS, OTHER THAN IN-PROGRESS INSPECTIONS	2.90	17	16	26	18	4.72

C-130: TE MEAN = 3.14, S.D. = 1.45
TD MEAN = 5.00, S.D. = 1.00

TABLE 22

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 20 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-130 WS SUPPLEMENT

TASKS NOT REFERENCED		C-130 TNG EMP	PERCENT MEMBERS PERFORMING C-130 1ST JOB (N=48)	C-130 1ST ENL (N=170)	C-130 5-LVL (N=281)	C-130 7-LVL (N=196)	TSK DIF
F318	INSPECT ACCESS DOORS OR HATCHES	5.59	69	78	80	55	3.54
F322	INSPECT AIRCRAFT SHOCK STRUTS	5.82	73	75	76	57	4.13
F329	INSPECT CREW ENTRANCE DOOR MECHANICAL COMPONENTS	5.59	69	71	73	51	4.43
F334	INSPECT FIRE EXTINGUISHERS	5.14	85	84	80	55	2.83
F338	INSPECT LIFERAFT DOOR RELEASE MECHANISMS	5.92	58	72	72	50	4.38
F342	INSPECT RADOMES	5.61	73	76	78	54	3.91
F344	INSPECT SEAT LOCKING MECHANISMS	5.00	79	78	79	51	3.69
F351	INSPECT TROOP DOOR MECHANICAL COMPONENTS	4.76	67	71	70	49	4.06
F353	INSPECT WINDOWS OR WINDSHIELDS	5.86	73	76	76	50	3.97
F361	MARSHAL AIRCRAFT	6.35	83	78	75	49	3.53
F374	PERFORM OPERATIONAL CHECKS OF BLEED AIR SYSTEMS	5.98	73	72	73	46	4.97
F375	PERFORM OPERATIONAL CHECKS OF CARGO DOORS OR RAMPS	5.86	67	72	75	47	4.83
F387	PERFORM OPERATIONAL CHECKS OF TROOP DOORS	4.98	69	73	73	45	3.83
F393	PERFORM PREUSE INSPECTION OF AIRCRAFT JACKS	5.10	77	76	76	51	3.39
F406	PERFORM PREUSE INSPECTION OF LOX SERVICING EQUIPMENT	6.12	79	76	75	45	3.96
F407	PERFORM PREUSE INSPECTION OF MAINTENANCE STANDS	5.08	69	71	74	54	2.99
F411	PERFORM SINGLE-POINT AIRCRAFT REFUELING OR DEFUELING	6.94	73	74	75	52	4.88
F413	POSITION AGE TO AIRCRAFT	4.71	79	75	72	52	2.39
F449	REMOVE, REPLACE, OR REINSTALL CREW SEATS	4.69	79	78	78	45	4.11
F477	REMOVE, REPLACE, OR REINSTALL WING LEADING EDGES	5.82	67	75	79	42	5.41
F487	SERVICE AIRCRAFT LOX SYSTEMS	6.63	77	77	77	46	4.76
F488	SERVICE AIRCRAFT SHOCK STRUTS	6.63	75	77	78	46	4.78
F511	WALK WINGS OR TAILS DURING AIRCRAFT TOWING OPERATIONS	4.86	81	81	80	52	2.64

C-130: TE MEAN = 3.14, S.D. = 1.45
TD MEAN = 5.00, S.D. = 1.00

TABLE 22 (CONTINUED)

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 20 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-130 WS SUPPLEMENT

TASKS NOT REFERENCED		C-130 TNG EMP	PERCENT MEMBERS PERFORMING C-130 1ST JOB (N=48)	C-130 1ST ENL (N=170)	C-130 5-LVL (N=281)	C-130 7-LVL (N=196)	TSK DIF
F512	WASH AIRCRAFT	4.69	71	65	63	34	3.47
G523	INSPECT AIRCRAFT TIRES	5.86	81	79	79	57	3.84
G543	INSPECT LANDING GEAR STRUTS	5.61	69	74	75	53	4.46
H663	SERVICE GTCs	5.14	73	64	62	38	3.68
K848	INSPECT EXTERNAL LIGHTS	4.84	75	75	73	52	3.60
K856	PERFORM OPERATIONAL CHECKS OF EXTERNAL LIGHTS	4.94	69	71	71	46	3.46
K857	PERFORM OPERATIONAL CHECKS OF INTERNAL LIGHTS	4.94	71	68	70	45	3.48

C-130: TE MEAN = 3.14, S.D. = 1.45
TD MEAN = 5.00, S.D. = 1.00

sample of these objectives and accompanying survey data is included in Table 23. School personnel and SMEs should review these unmatched objectives to ensure they are appropriate for the QTP.

There are also a number of tasks performed by more than 30 percent of first-job or first-enlistment C-5 personnel that were not matched to the QTP (see Table 24). Many of these tasks are in Duty F, Performing General Airframe and Aircraft Maintenance, but several can be found in Duty K (Maintaining Fuel Systems), Duty L (Maintaining Electrical Systems), and Duty M (Performing General Engine Maintenance). These tasks should be reviewed by school personnel and SMEs to see if they suggest topics that should be included.

C-141 QTP. As with the C-5 QTP, the learning objectives with tasks matched were reviewed to determine unsupported items. Ten objectives were found to not have the required 30 percent of first-job or first-enlistment personnel performing key tasks. Objectives I 4E, I 4F, I 4G, and I 4H are the same as in the C-5 QTP and again are unsupported. The other unsupported QTP learning objectives are: I 4I, Maintain Personnel Training Records; 623s (AFR 50-23); I 13A(1), Locate major components; I 13B(15), Perform an operational check of the ADS chute release components; I 13C(8), Remove and replace engine fluid filters (ENG, CSD, TR, FUEL); I 14I, Rain Removal System (1C-141B-2-30JG-40-1); and I 14K, Air Conditioning System (1C-141-2-21JG-50-1). A sample of these objectives is included in Table 25. To ensure they are appropriate for the QTP, school personnel and SMEs should review the unmatched objectives.

Table 26 contains tasks performed by more than 30 percent of first-job or first enlistment personnel that were not matched to the C-141 QTP. All but two of the tasks are located under Duty F, Performing General Airframe and Aircraft Maintenance. SMEs and school personnel should review these tasks to determine if they suggest topics to be included.

C-130 QTP. Most objectives of the C-130 QTP were found to be supported by survey data. As in the previous two QTPs, objectives I 4G and I 4H were found to be unsupported. In addition, other objectives which did not have the required 30 percent performing include I 7F, Aircraft Towbars; I 12I, Service GTC/APU; and I 13B(9), Remove and install aircraft hatches (1C-130). Selected objectives are included in Table 27 for reference. These objectives should be reviewed by school personnel and SMEs for inclusion in the C-130 QTP.

Tasks with 30 percent or more performing first-job or first-enlistment personnel that were not matched are included in Table 28. Again, as in the two previous QTPs, many of the tasks are from Duty F, yet several are concentrated in Duty P, Performing CAMS Activities. These tasks should be reviewed by school personnel and SMEs to see if possible topics should be included in the C-130 QTP.

TABLE 23

SAMPLE OF C-5 QTP LEARNING OBJECTIVES REQUIRING REVIEW
(LESS THAN 30 PERCENT MEMBERS PERFORMING)

		PERCENT MEMBERS PERFORMING			
	C-5 TNG EMP	C-5 ATI	C-5 1ST JOB (N=80)	C-5 1ST ENL (N=178)	TSK DIF
I 4F. TECHNICAL ORDERS (T.O.s)					
E205 INITIATE OR ANNOTATE TECHNICAL ORDER SYSTEMS FORMS, SUCH AS AFTO FORMS 22, 27, 110, 110A, 110B, AND 131	2.32	2	3	4	5.06
E251 RESEARCH TECHNICAL ORDERS TO IDENTIFY COMPONENTS OR ITEMS OF EQUIPMENT	2.81	2	20	29	4.68
I 4G. AFTO FORMS 244, 245 (AGE DOCUMENTATION)					
E173 COMPLETE AFTO FORMS 244 AND 245 (INDUSTRIAL/SUPPORT EQUIPMENT RECORD)	3.09	7	24	22	3.53
N942 PERFORM PREUSE INSPECTIONS OF NONPOWERED AGE	4.55	15	38	33	3.51
I 4H. INITIATE A MATERIAL DEFICIENCY REPORT (MDR)					
E183 COORDINATE DEFICIENCY OR SERVICE REPORTS WITH APPROPRIATE AGENCIES	.70	2	0	2	5.00
E208 INITIATE, ANNOTATE, OR COMPLETE MATERIAL DEFICIENCY REPORTS (MDR)	2.28	2	10	11	5.50

C-5: TE MEAN = 3.03, S.D. = 1.58
TD MEAN = 5.00, S.D. = 1.00

TABLE 23 (CONTINUED)

SAMPLE OF C-5 QTP LEARNING OBJECTIVES REQUIRING REVIEW
(LESS THAN 30 PERCENT MEMBERS PERFORMING)

		PERCENT MEMBERS PERFORMING				
		C-5 TNG EMP	C-5 ATI	C-5 1ST JOB (N=80)	C-5 1ST ENL (N=178)	TSK DIF
I 13B(1).	REMOVE AND INSTALL MAIN LANDING GEAR INNER DOORS					
E204	INITIATE OR ANNOTATE AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF FORMS 781 SERIES	5.62	18	53	62	4.59
E251	RESEARCH TECHNICAL ORDERS TO IDENTIFY COMPONENTS OR ITEMS OF EQUIPMENT	2.81	2	20	29	4.68
G575	REMOVE, REPLACE, OR REINSTALL LANDING GEAR DOORS	3.51	7	11	11	5.56
I 13C(4).	REMOVE AND INSTALL AN ENGINE STARTER CONTROL VALVE					
E204	INITIATE OR ANNOTATE AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF FORMS 781 SERIES	5.62	18	53	62	4.59
M911	REMOVE, REPLACE, OR REINSTALL ENGINE STARTER CONTROL VALVES	2.91	2	9	18	5.54

C-5: TE MEAN = 3.03, S.D. = 1.58
TD MEAN = 5.00, S.D. = 1.00

TABLE 24

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 30 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-5 QTP LEARNING OBJECTIVES

TASKS NOT REFERENCED		PERCENT MEMBERS PERFORMING				
		C-5 TNG EMP	C-5 ATI	C-5 1ST JOB (N=80)	C-5 1ST ENL (N=178)	TSK DIF
F304	CLEAN INTERIOR OF AIRCRAFT, SUCH AS CREW COMPARTMENTS OR CARGO COMPARTMENTS	4.55	8	64	73	2.80
F311	DIRECT AIRCRAFT REFUELING OR DEFUELING OPERATIONS	5.74	18	25	51	5.57
F338	INSPECT LIFERAFT DOOR RELEASE MECHANISMS	5.62	18	74	69	4.38
F364	OPEN OR CLOSE RADOMES	5.79	18	49	60	3.69
F377	PERFORM OPERATIONAL CHECKS OF CARGO VISORS	5.17	18	60	62	5.14
F380	PERFORM OPERATIONAL CHECKS OF FLIGHT STATION OR TROOP COMPARTMENT LADDER SYSTEMS	4.55	17	41	53	3.92
F386	PERFORM OPERATIONAL CHECKS OF SEAT ADJUSTMENT SYSTEMS	4.70	18	54	61	3.90
F425	REMOVE SNOW OR ICE FROM AIRCRAFT USING AGE	4.98	18	49	53	4.33
F475	REMOVE, REPLACE, OR REINSTALL WINDOWS	5.96	18	54	63	5.99
F476	REMOVE, REPLACE, OR REINSTALL WINDSHIELDS	5.81	18	53	54	6.28
F492	SERVICE ENGINE CONSTANT SPEED DRIVES (CSD)	5.38	18	51	56	3.57
F501	TOW NONPOWERED AGE	4.60	17	43	56	3.03
G525	INSPECT ANTISKID SYSTEMS	4.68	18	41	51	4.76
G552	INSPECT WHEEL BEARINGS	4.57	17	55	54	4.32
G590	SERVICE LANDING GEAR GEARBOXES	4.96	18	43	54	4.65
H615	INSPECT ESCAPE SLIDE SYSTEMS	4.64	18	59	57	4.63
K823	INSPECT FUEL VENT OUTLETS	4.81	18	71	65	3.85
K827	INSPECT SINGLE-POINT FUEL RECEPTACLES	5.06	18	79	72	3.89
K835	PREPARE AIRCRAFT FOR FUEL CELL MAINTENANCE	5.19	18	40	50	5.12
K848	INSPECT EXTERNAL LIGHTS	5.02	18	79	74	3.60
K849	INSPECT EXTERNAL POWER RECEPTACLES	4.64	18	76	74	3.66

C-5: TE MEAN = 3.03, S.D. = 1.58
TD MEAN = 5.00, S.D. = 1.00

TABLE 24 (CONTINUED)

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 30 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-5 QTP LEARNING OBJECTIVES

TASKS NOT REFERENCED		C-5 TNG EMP	PERCENT MEMBERS PERFORMING C-5 ATI	C-5 1ST JOB (N=80)	C-5 1ST ENL (N=178)	TSK DIF
K850	INSPECT FUSE OR CIRCUIT BREAKER PANELS	4.45	17	56	56	4.00
K851	INSPECT INTERNAL LIGHTS	4.66	18	75	71	3.61
K862	REMOVE, REPLACE, OR REINSTALL AIRCRAFT BATTERY BOXES OR TRAYS	5.04	18	64	66	4.18
K866	REMOVE, REPLACE, OR REINSTALL STROBE LIGHTS	4.45	17	55	51	4.41
M874	INSPECT AIR INLET OR EXHAUST AREAS	5.38	18	50	55	4.29
M875	INSPECT APUs	5.23	18	73	72	4.64
M876	INSPECT AUXILIARY AIR DOORS, SUCH AS FLIPPER OR SUCKER DOORS	4.60	17	60	59	4.08
M878	INSPECT BLOW-OUT DOORS	4.57	17	56	54	4.01
M880	INSPECT ENGINE APRONS	3.83	17	53	57	4.51
M889	INSPECT ENGINE NACELLES	4.51	17	59	53	4.40

C-5: TE MEAN = 3.03, S.D. = 1.58
TD MEAN = 5.00, S.D. = 1.00

TABLE 25

SAMPLE OF C-141 QTP LEARNING OBJECTIVES REQUIRING REVIEW
(LESS THAN 30 PERCENT MEMBERS PERFORMING)

TASKS NOT REFERENCED		C-141 TNG EMP	PERCENT MEMBERS PERFORMING C-141 ATI	C-141 1ST JOB (N=102)	C-141 1ST ENL (N=232)	TSK DIF
I 4I. MAINTAIN PERSONNEL TRAINING RECORDS, 623s (AFR 50-23)						
D144	PREPARE JOB QUALIFICATION STANDARDS (JQS)	1.32	2	0	1	5.98
I 13A(1). LOCATE MAJOR COMPONENTS						
E251	RESEARCH TECHNICAL ORDERS TO IDENTIFY COMPONENTS OR ITEMS OF EQUIPMENT	3.04	2	19	24	4.68
G514	ADJUST BRAKE SYSTEM MECHANICAL COMPONENTS	4.13	7	12	13	5.71
J795	REMOVE, REPLACE, OR REINSTALL BRAKE SYSTEM COMPONENTS, OTHER THAN MECHANICAL COMPONENTS	3.36	7	11	14	5.56
I 13B(15). PERFORM AN OPERATIONAL CHECK OF THE ADS CHUTE RELEASE COMPONENTS AS MISSION REQUIRES						
0971	PERFORM OPERATIONAL CHECKS OF ADS CHUTE RELEASE COMPONENTS	3.77	7	10	13	4.74

C-141: TE MEAN = 3.33, S.D. = 1.73
TD MEAN = 5.00, S.D. = 1.00

TABLE 25 (CONTINUED)

SAMPLE OF C-141 QTP LEARNING OBJECTIVES REQUIRING REVIEW
(LESS THAN 30 PERCENT MEMBERS PERFORMING)

TASKS NOT REFERENCED	C-141 TNG EMP	PERCENT MEMBERS PERFORMING C-141 ATI	C-141 1ST JOB (N=102)	C-141 1ST ENL (N=232)	TSK DIF
I 14I. RAIN REMOVAL SYSTEM					
H625 INSPECT WINDSHIELD RAIN REMOVAL SYSTEMS	4.38	7	14	16	4.55
H641 PERFORM OPERATIONAL CHECKS OF WINDSHIELD RAIN REMOVAL SYSTEMS	3.43	7	11	17	4.58
I 14K. AIR-CONDI NING SYSTEM					
H629 PERFORM OPERATIONAL CHECKS OF AIR-CONDITIONING SYSTEM	4.66	7	13	21	5.35

C-141: TE MEAN = 3.33, S.D. = 1.73
TD MEAN = 5.00, S.D. = 1.00

TABLE 26

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 30 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-141 QTP LEARNING OBJECTIVES

TASKS NOT REFERENCED		C-141 TNG EMP	PERCENT MEMBERS PERFORMING C-141 ATI	C-141 1ST JOB (N=102)	C-141 1ST ENL (N=232)	TSK DIF
F280	ADJUST CREW ENTRANCE DOOR ACTUATING MECHANISMS	5.23	12	31	31	5.90
F287	ADJUST SEAT LOCKING MECHANISMS	5.83	12	37	45	4.94
F288	ADJUST SLIDING WINDOW LINKAGE OR LATCHING MECHANISMS	5.96	12	36	44	5.36
F304	CLEAN INTERIOR OF AIRCRAFT, SUCH AS CREW COMPARTMENTS OR CARGO COMPARTMENTS	5.06	13	60	61	2.80
F311	DIRECT AIRCRAFT REFUELING OR DEFUELING OPERATIONS	5.96	12	31	46	5.57
F366	OPERATE AIRCRAFT COCKPIT CONTROLS DURING TOWING OPERATIONS	6.45	18	52	55	4.20
F374	PERFORM OPERATIONAL CHECKS OF BLEED AIR SYSTEMS	5.64	12	33	36	4.97
F379	PERFORM OPERATIONAL CHECKS OF CREW ENTRANCE DOORS OR LADDERS	5.98	18	54	53	3.99
F380	PERFORM OPERATIONAL CHECKS OF FLIGHT STATION OR TROOP COMPARTMENT LADDER SYSTEMS	4.79	15	45	39	3.92
F382	PERFORM OPERATIONAL CHECKS OF INSTRUMENT SYSTEMS	4.00	7	29	26	5.47
F422	REMOVE OR REPLACE ACCESS DOOR PRESSURE SEALS	5.00	15	27	39	4.60
F444	REMOVE, REPLACE, OR REINSTALL CREW ENTRANCE DOOR LATCHING MECHANISM COMPONENTS	4.77	7	26	28	5.56
F445	REMOVE, REPLACE, OR REINSTALL CREW ENTRANCE DOOR LINKAGES	4.68	7	28	27	5.58
F448	REMOVE, REPLACE, OR REINSTALL CREW POSITION WORK TABLES	3.85	15	35	38	3.82
F450	REMOVE, REPLACE, OR REINSTALL FLIGHT STATION OR TROOP COMPARTMENT LADDER SYSTEM COMPONENTS	3.96	7	26	28	4.28
F452	REMOVE, REPLACE, OR REINSTALL HORIZONTAL OR VERTICAL STABILIZER LEADING EDGES	5.13	12	30	35	5.47
F454	REMOVE, REPLACE, OR REINSTALL LIFERAFT DOORS	4.94	15	33	39	4.73

C-141: TE MEAN = 3.33, S.D = 1.73
TD MEAN = 5.00, S.D. = 1.00

TABLE 26 (CONTINUED)

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 30 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-141 QTP LEARNING OBJECTIVES

TASKS NOT REFERENCED		PERCENT MEMBERS PERFORMING			
	C-141 TNG EMP	C-141 ATI	C-141 1ST JOB (N=102)	C-141 1ST ENL (N=232)	TSK DIF
F455 REMOVE, REPLACE, OR REINSTALL LIFERAFT RELEASE MECHANISM COMPONENTS	5.19	12	28	30	5.23
F462 REMOVE, REPLACE, OR REINSTALL SEAT LOCKING MECHANISM COMPONENTS	4.81	15	28	32	4.38
F464 REMOVE, REPLACE, OR REINSTALL SHOULDER HARNESS INERTIAL REELS	4.94	15	25	34	4.01
F465 REMOVE, REPLACE, OR REINSTALL SLIDING WINDOW LINKAGE OR LATCHING MECHANISM COMPONENTS	5.02	15	26	34	4.98
F475 REMOVE, REPLACE, OR REINSTALL WINDOWS	6.40	18	51	52	5.99
F476 REMOVE, REPLACE, OR REINSTALL WINDSHIELDS	6.28	12	48	49	6.28
F477 REMOVE, REPLACE, OR REINSTALL WING LEADING EDGES	5.81	18	57	63	5.41
F486 SERVICE AIRCRAFT LIQUID NITROGEN SYSTEMS	5.19	11	35	26	4.52
G546 INSPECT LANDING GEAR TRUCKS (TORQUE STRUTS) OR BOGIES	5.77	12	40	44	4.58
H616 INSPECT FIRE EXTINGUISHING OR SUPRESSION SYSTEMS	5.19	11	27	28	4.87
I741 REMOVE, REPLACE, OR REINSTALL SPOILER PANELS	4.74	15	22	32	5.47
K819 DRY-DRAIN FUEL TANKS	4.51	15	31	36	4.10
K835 PREPARE AIRCRAFT FOR FUEL CELL MAINTENANCE	5.47	12	38	45	5.12

C-141: TE MEAN = 3.33, S.D. = 1.73
TD MEAN = 5.00, S.D. = 1.00

TABLE 27

SAMPLE OF C-130 QTP LEARNING OBJECTIVES REQUIRING REVIEW
(LESS THAN 30 PERCENT MEMBERS PERFORMING)

		PERCENT MEMBERS PERFORMING			
	C-130 TNG EMP	C-130 ATI	C-130 1ST JOB (N=48)	C-130 1ST ENL (N=170)	TSK DIF
I 4H. INITIATE A MATERIAL DEFICIENCY REPORT (MDR)					
E208 INITIATE, ANNOTATE, OR COMPLETE MATERIAL DEFICIENCY REPORTS (MDR)	2.55	2	2	3	5.50
I 7F. JB-1 HOIST (A-FRAME)					
E173 COMPLETE AFTO FORMS 244 AND 245 (INDUSTRIAL/SUPPORT EQUIPMENT RECORD)	3.59	7	25	21	3.53
F401 PERFORM PREUSE INSPECTION OF HOISTS	4.16	7	8	28	3.69
I 12I. SERVICE GTC/APU					
E204 INITIATE OR ANNOTATE AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF FORMS 781 SERIES	5.63	18	52	52	4.59
H661 SERVICE APUs	3.92	7	17	22	3.70
I 13B(9). REMOVE AND INSTALL AIRCRAFT HATCHES (1C-130)					
F428 REMOVE, REPLACE, OR REINSTALL ACCESS HATCH LATCHING MECHANISMS	4.29	7	21	29	5.17

C-130: TE MEAN = 3.14, S.D. = 1.45
TD MEAN = 5.00, S.D. = 1.00

TABLE 28

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 30 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-130 QTP LEARNING OBJECTIVES

TASKS NOT REFERENCED		C-130 TNG EMP	PERCENT MEMBERS PERFORMING C-130 ATI	C-130 1ST JOB (N=48)	C-130 1ST ENL (N=170)	TSK DIF
E212	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	5.22	18	50	55	3.07
F289	ADJUST SWING WINDOW LATCHING MECHANISMS	4.92	12	29	48	4.81
F311	DIRECT AIRCRAFT REFUELING OR DEFUELING OPERATIONS	5.73	18	29	53	5.57
F332	INSPECT CREW OR PASSENGER COMFORT FACILITIES	3.86	17	48	56	3.59
F333	INSPECT CREW POSITION WORK TABLES	3.49	17	35	52	3.01
F341	INSPECT PRESSURE DOOR SEALS, SUCH AS CREW ENTRANCE DOOR OR VISOR SEALS	4.57	17	38	56	3.82
F447	REMOVE, REPLACE, OR REINSTALL CREW ENTRANCE LADDERS	3.92	17	35	51	4.39
F456	REMOVE, REPLACE, OR REINSTALL LIFERAFTS	6.24	18	65	72	5.22
F462	REMOVE, REPLACE, OR REINSTALL SEAT LOCKING MECHANISM COMPONENTS	4.24	17	31	54	4.38
F463	REMOVE, REPLACE, OR REINSTALL SEATBELTS OR SHOULDER HARNESSES	4.24	17	50	65	3.67
F464	REMOVE, REPLACE, OR REINSTALL SHOULDER HARNESS INERTIAL REELS	4.49	17	31	55	4.01
F466	REMOVE, REPLACE, OR REINSTALL SWING WINDOW LATCHING MECHANISM COMPONENTS	3.75	17	25	52	4.73
F472	REMOVE, REPLACE, OR REINSTALL TROOP OR PASSENGER SEATS	4.31	17	48	64	4.04
F478	REMOVE, REPLACE, OR REINSTALL WING TIPS	5.22	12	19	48	5.13
F481	REPAIR CREW SEATS	3.31	17	48	59	5.03
G547	INSPECT LANDING GEAR UP LOCK MECHANISMS	4.12	15	38	49	4.65
G552	INSPECT WHEEL BEARINGS	4.55	17	42	51	4.32
H618	INSPECT GTC ACCESS PANELS	3.90	17	60	58	3.94

C-130: TE MEAN = 3.14, S.D. = 1.45
TD MEAN = 5.00, S.D. = 1.00

TABLE 28 (CONTINUED)

SAMPLE OF TECHNICAL TASKS PERFORMED BY MORE THAN 30 PERCENT OF CRITERION GROUP MEMBERS NOT MATCHED TO AFSC 457X2 C-130 QTP LEARNING OBJECTIVES

TASKS NOT REFERENCED		C-130 TNG EMP	PERCENT MEMBERS PERFORMING C-130 ATI	C-130 1ST JOB (N=48)	C-130 1ST ENL (N=170)	TSK DIF
H635	PERFORM OPERATIONAL CHECKS OF GTCs	5.39	18	56	60	5.13
H650	REMOVE, REPLACE, OR REINSTALL GTC ACCESS PANELS	4.18	17	48	55	3.89
H663	SERVICE GTCs	5.14	18	73	64	3.68
I704	INSPECT FLIGHT CONTROL SURFACES	4.78	12	35	49	4.94
K835	PREPARE AIRCRAFT FOR FUEL CELL MAINTENANCE	4.57	17	52	56	5.12
K854	PERFORM OPERATIONAL CHECKS OF AIRCRAFT BATTERIES	4.92	18	58	65	4.24
P982	ACCESS CAMS MENUS	5.04	18	44	52	4.30
P988	OPEN CAMS	5.04	18	35	50	4.17
P989	PERFORM CAMS INQUIRY FOR SCHEDULED AIRCRAFT DISCREPANCIES	5.35	18	33	50	4.52
P994	SCHEDULE AIRCRAFT DISCREPANCIES IN CAMS	4.57	15	35	49	4.66
P997	UPDATE AIRCRAFT MAINTENANCE DISCREPANCIES IN CAMS	5.37	12	40	48	4.76

C-130: TE MEAN = 3.14, S.D. = 1.45
TD MEAN = 5.00, S.D. = 1.00

QTP Summary

The majority of the matched portions of the three QTP documents are supported by survey data using criteria set forth in AFR 8-13/ATC Sup 1 and ATCR 52-22, Atch 1. Areas of major concern should include paragraph 4, which contains several objectives which repeatedly revealed unsupportive matched tasks. In addition, the "Tasks Not Matched" sections had several tasks with a high percentage of personnel performing. A high concentration of the unmatched tasks was found in Duty F, Performing General Airframe and Aircraft Maintenance.

Training Analysis Summary

Courses taught in Phase I training were not reviewed as they primarily teach aircraft maintenance and system fundamentals. The majority of the WS Sup STSs and the QTPs are supported by survey data when reviewed using criteria set forth in AFR 8-13/ATC Supplement 1 and ATCR 52-22. Unsupported elements and learning objectives need to be reviewed by school personnel.

JOB SATISFACTION

Respondents were asked to indicate how interested they are in their jobs, if they feel their talents and training are being used, and if they intend to reenlist. Satisfaction indicators for TAFMS groups in the present study were compared to those TAFMS members of similar AFSCs surveyed in 1991 (see Table 29). Overall, AFSC 457X2 personnel are satisfied with their jobs.

Satisfaction indicators for members in the various jobs are shown in Table 30. Most respondents find their work interesting, with the exceptions of those in the CTK Monitor, Wheel and Tire, and Supply jobs. Fewer -21 AME Support and Transient Alert respondents feel their talents are being used. Those with the Supply job feel their training is not being applied in their job, while those in the CTK Monitor and Wheel and Tire jobs have lower reenlistment intentions than members of any other jobs. Overall, members of the Supply, -21 AME Support, and CTK Monitor jobs have the lowest job satisfaction indicators.

Summary

Satisfaction of AFSC 457X2 personnel and members of similiar AFSCs surveyed in 1991 was compared, and data show AFSC 457X2 personnel have similar responses to those of their counterparts in other AFSCs. Members of most jobs find their work interesting, feel their talents and training are used, and plan to reenlist. The exceptions to this include the -21 AME Support, CTK Monitor, and Supply personnel.

TABLE 29

COMPARISON OF JOB SATISFACTION INDICATORS FOR 457X2 TAFMS GROUPS IN CURRENT STUDY TO A COMPARATIVE SAMPLE** (PERCENT MEMBERS RESPONDING)

	1-48 MOS TAFMS		49-96 MOS TAFMS		97+ MOS TAFMS	
	1992 (N=812)	COMP SAMPLE (N=2,230)	1992 (N=592)	COMP SAMPLE (N=1,441)	1992 (N=1,469)	COMP SAMPLE (N=2,756)
EXPRESSED JOB INTEREST:						
INTERESTING	77	72	73	71	78	73
SO-SO	15	17	19	17	15	15
DULL	8	11	8	12	7	12
PERCEIVED USE OF TALENTS:						
FAIRLY WELL TO PERFECT	80	80	80	77	85	79
LITTLE OR NOT AT ALL	20	20	20	23	15	21
PERCEIVED USE OF TRAINING:						
FAIRLY WELL TO PERFECT	85	80	78	74	81	74
LITTLE OR NOT AT ALL	15	20	22	26	19	26
REENLISTMENT INTENTIONS:						
WILL REENLIST	60	58	70	68	76	75
WILL NOT REENLIST	40	41	30	31	7	12
WILL RETIRE	*	*	*	*	17	13

* Denotes less than 1 percent
** Comparative data from AFSCs 452X2, 454X1, 456X1, 457X3, and 465X0 surveyed in 1991

TABLE 30

COMPARISON OF JOB SATISFACTION INDICATORS FOR MEMBERS OF 457X2 SPECIALTY JOBS**
(PERCENT MEMBERS RESPONDING)

	FLIGHTLINE CREW CHIEF (N=1,437)	SUPERVISOR (N=285)	AUTOMATED MAINTENANCE CONTROL (N=193)	MAINTENANCE CONTROL COORDINATOR (N=15)	-21 AME SUPPORT (N=102)	CTK MONITOR (N=94)
EXPRESSED JOB INTEREST:						
INTERESTING	81	76	76	87	52	46
SO-SO	14	18	13	13	28	34
DULL	5	6	10	*	19	20
PERCEIVED USE OF TALENTS:						
FAIRLY WELL TO PERFECT	87	89	79	80	56	62
LITTLE OR NOT AT ALL	13	11	21	20	44	37
PERCEIVED USE OF TRAINING:						
FAIRLY WELL TO PERFECT	91	80	70	80	48	47
LITTLE OR NOT AT ALL	8	19	29	20	52	52
REENLISTMENT INTENTIONS:						
WILL REENLIST	72	66	78	93	61	53
WILL NOT REENLIST	24	5	14	7	31	40
WILL RETIRE	4	29	8	*	7	6

* Denotes less than 1 percent
** Columns may not add to 100 percent due to rounding

TABLE 30 (CONTINUED)

COMPARISON OF JOB SATISFACTION INDICATORS FOR MEMBERS OF 457X2 SPECIALTY JOBS**
(PERCENT MEMBERS RESPONDING)

	QUALITY ASSURANCE EVALUATION (N=61)	TRANSIENT ALERT (N=51)	T.O. MONITOR (N=49)	FLIGHTLINE EXPEDITOR (N=40)	ISOCHRONAL INSPECTOR (N=30)
EXPRESSED JOB INTEREST:					
INTERESTING	95	60	63	80	73
SO-SO	3	18	29	13	20
DULL	2	22	8	7	7
PERCEIVED USE OF TALENTS:					
FAIRLY WELL TO PERFECT	95	55	75	84	87
LITTLE OR NOT AT ALL	5	45	24	15	13
PERCEIVED USE OF TRAINING:					
FAIRLY WELL TO PERFECT	97	59	57	80	83
LITTLE OR NOT AT ALL	3	41	43	20	17
REENLISTMENT INTENTIONS:					
WILL REENLIST	79	71	57	60	73
WILL NOT REENLIST	5	25	31	5	13
WILL RETIRE	16	4	12	35	13

* Denotes less than 1 percent
** Columns may not add to 100 percent due to rounding

TABLE 30 (CONTINUED)

COMPARISON OF JOB SATISFACTION INDICATORS FOR MEMBERS OF 457X2 SPECIALTY JOBS**
(PERCENT MEMBERS RESPONDING)

	FLIGHTLINE INSPECTOR (N=22)	FLIGHT MECHANIC (N=18)	TRAINING INSTRUCTOR (N=16)	WHEEL AND TIRE (N=11)	SUPPLY (N=11)	REFURBISHMENT MECHANIC (N=10)
EXPRESSED JOB INTEREST:						
INTERESTING	82	100	88	45	45	80
SO-SO	9	*	6	36	36	10
DULL	9	*	6	18	18	10
PERCEIVED USE OF TALENTS:						
FAIRLY WELL TO PERFECT	86	100	87	64	64	80
LITTLE OR NOT AT ALL	14	*	13	36	36	20
PERCEIVED USE OF TRAINING:						
FAIRLY WELL TO PERFECT	86	100	75	73	26	50
LITTLE OR NOT AT ALL	14	*	25	27	74	50
REENLISTMENT INTENTIONS:						
WILL REENLIST	64	83	87	55	64	90
WILL NOT REENLIST	36	11	*	27	36	10
WILL RETIRE	*	6	13	18	*	*

* Denotes less than 1 percent
** Columns may not add to 100 percent due to rounding

DISCUSSION

Overall, the career ladder structure is comprised of 17 jobs. The main job identified is the Flightline Crew Chief. Personnel progress typically through the career ladder, with 3- and 5-skill level members performing mainly technical tasks and 7-skill level members performing a mixture of technical and supervisory tasks. Survey data support the current AFR 39-1 specialty description.

Job satisfaction indicators for this specialty are very similar to those of related AFSCs surveyed in 1991. Members of most jobs report they find their job interesting and feel their talents and training are used. Members in the CTK Monitor job, the -21 AME Support job, and the Supply job, however, have the lowest satisfaction indicators.

Most of the matched elements of the WS Sup STS were well supported by survey data; however, numerous elements and tasks not matched to the STS require review for possible inclusion. The QTP documents were in better shape, and most of the learning objectives were well supported by survey data. Many of the tasks in the tasks not matched sections of both of the documents were under Duty F, Performing General Airframe and Aircraft and Maintenance. School personnel need to review all unsupported objectives, as well as high performance and unmatched tasks, to determine if revisions to the training documents are required.

APPENDIX A

SELECTED REPRESENTED TASKS PERFORMED BY MEMBERS OF CAREER LADDER JOBS

TABLE A1

FLIGHTLINE CREW CHIEF
(GRP137)

NUMBER IN GROUP: 1,437
PERCENT OF SAMPLE: 50%

AVERAGE TIME IN JOB: 48 MONTHS
AVERAGE TAFMS: 84 MONTHS

THE FOLLOWING TASKS ARE IN DESCENDING ORDER OF PERCENT MEMBERS PERFORMING:

TASKS		PERCENT MEMBERS PERFORMING
F367	OPERATE AIRCRAFT INTERPHONES	97
F363	OPEN OR CLOSE ENGINE COWLINGS	97
F317	GROUND AIRCRAFT	96
F489	SERVICE AIRCRAFT TIRES	95
F306	CONNECT OR DISCONNECT EXTERNAL ELECTRICAL AIRCRAFT POWER	95
G523	INSPECT AIRCRAFT TIRES	95
F361	MARSHAL AIRCRAFT	94
F411	PERFORM SINGLE-POINT AIRCRAFT REFUELING OR DEFUELING	94
F488	SERVICE AIRCRAFT SHOCK STRUTS	94
F370	PERFORM FOREIGN OBJECT DAMAGE (FOD) WALKS	94
F416	POSITION FIRE EXTINGUISHERS	94
F319	INSPECT ACCESS PANELS	94
F318	INSPECT ACCESS DOORS OR HATCHES	93
F500	TOW AIRCRAFT	92
F358	LAUNCH OR RECOVER AIRCRAFT	92
F360	LUBRICATE AIRCRAFT COMPONENTS	92
G543	INSPECT LANDING GEAR STRUTS	92
F417	POSITION OR REMOVE AIRCRAFT CHOCKS OR PINS	92
F353	INSPECT WINDOWS OR WINDSHIELDS	91
F434	REMOVE, REPLACE, OR REINSTALL AIRCRAFT HARDWARE, SUCH AS SCREWS OR FASTENERS	91
F334	INSPECT FIRE EXTINGUISHERS	91
F487	SERVICE AIRCRAFT LOX SYSTEMS	91
F494	SERVICE ENGINES WITH OIL	91
F484	SERVICE AIRCRAFT ACCUMULATORS	91
F511	WALK WINGS OR TAIL DURING AIRCRAFT TOWING OPERATIONS	91
F368	OPERATE AIRCRAFT RADIOS	89
K848	INSPECT EXTERNAL LIGHTS	89
F413	POSITION AGE TO AIRCRAFT	89
F342	INSPECT RADOMES	89
F344	INSPECT SEAT LOCKING MECHANISMS	88

TABLE A2

SUPERVISOR
(STG078)

NUMBER IN GROUP: 285
PERCENT OF SAMPLE: 10%

AVERAGE TIME IN JOB: 37 MONTHS
AVERAGE TAFMS: 178 MONTHS

THE FOLLOWING TASKS ARE IN DESCENDING ORDER OF PERCENT MEMBERS PERFORMING:

TASKS		PERCENT MEMBERS PERFORMING
C106	WRITE EPRs	87
A10	DETERMINE WORK PRIORITIES	85
B33	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS	79
A19	PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS, BRIEFINGS, CONFERENCES, OR WORKSHOPS, OTHER THAN CONDUCTING	78
C98	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	74
A2	ASSIGN PERSONNEL TO DUTY POSITIONS	74
A18	ESTABLISH WORK SCHEDULES	71
A21	PLAN OR SCHEDULE WORK ASSIGNMENTS	71
A27	SCHEDULE PERSONNEL FOR LEAVES, PASSES, OR TDY	69
A22	PLAN OR SCHEDULE WORK PRIORITIES	69
A17	ESTABLISH PERFORMANCE STANDARDS FOR SUBORDINATES	69
A1	ASSIGN MAINTENANCE AND REPAIR WORK	68
C108	WRITE RECOMMENDATIONS FOR AWARDS OR DECORATIONS	68
D112	ANNOTATE TRAINING RECORDS	68
C81	EVALUATE PERSONNEL FOR COMPLIANCE WITH PERFORMANCE STANDARDS OR TECHNICAL ORDERS	67
B32	CONDUCT SUPERVISORY ORIENTATIONS OF NEWLY ASSIGNED PERSONNEL	64
B56	SUPERVISE AIRLIFT AIRCRAFT MAINTENANCE TECHNICIANS (AFSC 45772)	61
A7	COORDINATE MAINTENANCE PROBLEMS WITH MAINTENANCE CONTROL OR APPROPRIATE AGENCIES	61
C63	ANALYZE WORKLOAD REQUIREMENTS	61
B53	INTERPRET POLICIES, DIRECTIVES, OR PROCEDURES FOR SUBORDINATES	61
E175	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	61
C103	PERFORM SELF-INSPECTIONS	60
C65	CLEAR RED X CONDITIONS	58
D114	CONDUCT OJT	56
B51	INITIATE ACTION REQUIRED DUE TO SUBSTANDARD PERFORMANCE OF PERSONNEL	56
E212	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	56
E163	COMPLETE AF FORMS 2005 (ISSUE/TURN IN REQUEST)	55
D113	ASSIGN ON-THE-JOB TRAINING (OJT) TRAINERS OR SUPERVISORS	55
A14	DEVELOP WORK METHODS OR PROCEDURES	55
A8	DETERMINE LOGISTICS REQUIREMENTS, SUCH AS PERSONNEL, SPACE, EQUIPMENT, OR SUPPLIES	54

TABLE A3

AUTOMATED MAINTENANCE CONTROL
(STG276)

NUMBER IN GROUP: 193
PERCENT OF SAMPLE: 7%

AVERAGE TIME IN JOB: 33 MONTHS
AVERAGE TAFMS: 127 MONTHS

THE FOLLOWING TASKS ARE IN DESCENDING ORDER OF PERCENT MEMBERS PERFORMING:

TASKS		PERCENT MEMBERS PERFORMING
P982	ACCESS CAMS MENUS	94
P994	SCHEDULE AIRCRAFT DISCREPANCIES IN CAMS	91
P989	PERFORM CAMS INQUIRY FOR SCHEDULED AIRCRAFT DISCREPANCIES	90
P983	ACCESS CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) DATA SCREENS	89
P997	UPDATE AIRCRAFT MAINTENANCE DISCREPANCIES IN CAMS	88
P993	RESCHEDULE AIRCRAFT MAINTENANCE DISCREPANCIES IN CAMS	85
P991	PERFORM CAMS INQUIRY FOR UNCOMPLETED MAINTENANCE EVENT LISTINGS	84
P992	PERFORM CAMS INQUIRY TO MONITOR DELAYED DISCREPANCIES PRIOR TO, DURING, AND AFTER SCHEDULING MAINTENANCE	80
P988	OPEN CAMS	77
P986	CLOSE CAMS	73
P985	CHANGE CAMS WORKCENTER EVENT NARRATIVES	64
P995	START OR STOP CAMS JOB FOLLOWING EVENTS	59
P996	TRACK CAMS JOB FOLLOWING EVENTS	59
A7	COORDINATE MAINTENANCE PROBLEMS WITH MAINTENANCE CONTROL OR APPROPRIATE AGENCIES	59
P984	CHANGE CAMS JOB STANDARD NARRATIVES	58
P990	PERFORM CAMS INQUIRY FOR TRAINING STATUS	58
A6	COORDINATE CANNIBALIZATION OF PARTS WITH MATERIEL SUPPORT	58
A10	DETERMINE WORK PRIORITIES	58
A4	COORDINATE AIRCRAFT LAUNCH AND RECOVERY TIMES WITH AIRCREWS OR APPROPRIATE AGENCIES	54
E259	REVIEW AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF FORMS 781 SERIES	50
P998	UPDATE MDC USING CAMS	44
A26	REVIEW FLIGHT SCHEDULES	44
A19	PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS, BRIEFINGS, CONFERENCES, OR WORKSHOPS, OTHER THAN CONDUCTING	41
A1	ASSIGN MAINTENANCE AND REPAIR WORK	40
C106	WRITE EPRs	40
B36	DIRECT FLIGHTLINE MAINTENANCE ACTIVITIES	40
A22	PLAN OR SCHEDULE WORK PRIORITIES	39
P987	DETERMINE CAMS TRAINING REQUIREMENTS	34
D114	CONDUCT OJT	33

TABLE A4

MAINTENANCE CONTROL COORDINATOR
(STG299)

NUMBER IN GROUP: 15 AVERAGE TIME IN JOB: 31 MONTHS
PERCENT OF SAMPLE: LESS THAN 1% AVERAGE TAFMS: 152 MONTHS

THE FOLLOWING TASKS ARE IN DESCENDING ORDER OF PERCENT MEMBERS PERFORMING:

TASKS		PERCENT MEMBERS PERFORMING
A4	COORDINATE AIRCRAFT LAUNCH AND RECOVERY TIMES WITH AIRCREWS OR APPROPRIATE AGENCIES	100
A6	COORDINATE CANNIBALIZATION OF PARTS WITH MATERIEL SUPPORT	100
A7	COORDINATE MAINTENANCE PROBLEMS WITH MAINTENANCE CONTROL OR APPROPRIATE AGENCIES	93
A10	DETERMINE WORK PRIORITIES	93
B36	DIRECT FLIGHTLINE MAINTENANCE ACTIVITIES	87
A8	DETERMINE LOGISTICS REQUIREMENTS, SUCH AS PERSONNEL, SPACE, EQUIPMENT, OR SUPPLIES	80
A1	ASSIGN MAINTENANCE AND REPAIR WORK	73
A26	REVIEW FLIGHT SCHEDULES	73
E184	COORDINATE OBTAINING PARTS WITH BASE SUPPLY	73
B29	ADJUST DAILY MAINTENANCE PLANS TO MEET OPERATIONAL COMMITMENTS	67
A22	PLAN OR SCHEDULE WORK PRIORITIES	67
A19	PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS, BRIEFINGS, CONFERENCES, OR WORKSHOPS, OTHER THAN CONDUCTING	67
A20	PLAN OR PREPARE BRIEFINGS	53
B42	DIRECT UTILIZATION OF FACILITIES OR WORK AREAS	47
A18	ESTABLISH WORK SCHEDULES	47
A25	REVIEW DRAFTS OF REGULATIONS, MANUALS, OR OTHER DIRECTIVES	47
E267	VERIFY MISSION CAPABILITY (MICAP) CONDITIONS	40
B35	DIRECT DEVELOPMENT OR MAINTENANCE OF STATUS INDICATORS, SUCH AS BOARDS, GRAPHS, OR CHARTS	40
B41	DIRECT MAINTENANCE OR UTILIZATION OF EQUIPMENT OR SUPPLY LEVELS	40
B30	COMPILE INFORMATION FOR REPORTS OR STAFF STUDIES	40
A21	PLAN OR SCHEDULE WORK ASSIGNMENTS	40
A24	PREPARE AGENDA FOR STAFF MEETINGS, CONFERENCES, WORKSHOPS, OR SYMPOSIUMS	40
A27	SCHEDULE PERSONNEL FOR LEAVES, PASSES, OR TDY	40
D114	CONDUCT OJT	40
A11	DEVELOP EQUIPMENT UTILIZATION OR MAINTENANCE SCHEDULES	40
C106	WRITE EPRs	40
C98	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	40

TABLE A5

-21 ALTERNATE MISSION EQUIPMENT (AME) SUPPORT
(STG185)

NUMBER IN GROUP: 102
PERCENT OF SAMPLE: 4%

AVERAGE TIME IN JOB: 26 MONTHS
AVERAGE TAFMS: 76 MONTHS

THE FOLLOWING TASKS ARE IN DESCENDING ORDER OF PERCENT MEMBERS PERFORMING:

TASKS		PERCENT MEMBERS PERFORMING
0975	REMOVE, REPLACE, OR REINSTALL -21 AME, OTHER THAN SEATS OR LITTERS	99
0963	PERFORM ACCOUNTABILITY INSPECTIONS OF -21 AME ON AIRCRAFT	97
0980	REPLACE PORTABLE OXYGEN BOTTLES	95
0961	PERFORM -21 AME DOWN LOADS FOR AIRCRAFT PERIODIC DEPOT MAINTENANCE (PDM)	94
0973	PICK UP OR DELIVER -21 AME	92
0962	PERFORM -21 AME UPLOADS FOR PDM	92
0955	INSPECT -21 ALTERNATE MISSION EQUIPMENT (AME), OTHER THAN EMERGENCY EQUIPMENT	91
0967	PERFORM MINOR MAINTENANCE ON -21 AME, SUCH AS TIGHTENING SCREWS OR BOLTS	88
0956	INSPECT AIRCRAFT EMERGENCY EQUIPMENT, SUCH AS FIRST AID KITS AND EMERGENCY OXYGEN BOTTLES	86
0954	CONFIGURE CARGO COMPARTMENT SEATS OR LITTERS	82
0959	MAINTAIN CARGO LOADING WINCHES	80
0969	PERFORM MINOR REPAIRS ON CARGO COMPARTMENT SEATS OR LITTERS	78
0978	REMOVE, REPLACE, OR REINSTALL DUAL RAIL CARGO HANDLING SYSTEM COMPONENTS	77
0957	INSPECT DUAL RAIL CARGO HANDLING SYSTEMS	75
0979	REMOVE, REPLACE, OR REINSTALL MINOR HARDWARE OR DEFECTIVE PARTS ON DUAL RAIL CARGO HANDLING SYSTEM	74
0974	PREPARE PORTABLE OXYGEN BOTTLES	74
0952	ADJUST DUAL RAIL CARGO HANDLING SYSTEM COMPONENTS	72
0960	PACK OR UNPACK -21 AME	72
0981	TROUBLESHOOT DUAL RAIL CARGO HANDLING SYSTEMS	72
F419	RECONFIGURE AIRCRAFT	67
E212	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	65
0966	PERFORM MINOR CORROSION CONTROL ON -21 AME	65
0972	PERFORM OPERATIONAL OR RIG CHECKS OF DUAL RAIL CARGO HANDLING SYSTEMS	64
A10	DETERMINE WORK PRIORITIES	64
F373	PERFORM OPERATIONAL CHECKS OF AIRCRAFT CARGO WINCHES	59
F306	CONNECT OR DISCONNECT EXTERNAL ELECTRICAL AIRCRAFT POWER	57
E175	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	56
0964	PERFORM CORROSION CONTROL ON DUAL RAIL CARGO HANDLING SYSTEMS	55
0976	REMOVE, REPLACE, OR REINSTALL ADS CABLES	54

TABLE A6

COMPOSITE TOOL KIT (CTK) MONITOR
(STG102)

NUMBER IN GROUP: 94
PERCENT OF SAMPLE: 1%

AVERAGE TIME IN JOB: 18 MONTHS
AVERAGE TAFMS: 91 MONTHS

THE FOLLOWING TASKS ARE IN DESCENDING ORDER OF PERCENT MEMBERS PERFORMING:

TASKS		PERCENT MEMBERS PERFORMING
E217	MAINTAIN COMPOSITE TOOL KITS (CTK)	94
E216	MAINTAIN BENCHSTOCK PARTS OR EQUIPMENT LEVELS	80
E212	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	78
E213	ISSUE EQUIPMENT AND SUPPLIES	76
E239	MAINTAIN TOOL CRIBS	72
E214	LOG TURN-IN OF EQUIPMENT AND SUPPLIES	72
E175	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	69
E190	INITIATE AF FORMS 1297 (TEMPORARY ISSUE RECEIPT)	61
E163	COMPLETE AF FORMS 2005 (ISSUE/TURN-IN REQUEST)	57
E159	ANNOTATE OR COMPLETE AF FORMS 2413 (SUPPLY CONTROL LOG)	52
E161	ATTACH OR ANNOTATE EQUIPMENT STATUS LABELS OR TAGS, SUCH AS DD FORMS 1574 (SERVICEABLE TAG-MATERIEL)	51
F356	INVENTORY CTKs	50
E184	COORDINATE OBTAINING PARTS WITH BASE SUPPLY	48
C64	CERTIFY STATUS OF PARTS, SUCH AS REPARABLE, SERVICEABLE, OR CONDEMNED	43
A10	DETERMINE WORK PRIORITIES	39
C67	CONDUCT INSPECTIONS OF ORGANIZATIONAL EQUIPMENT	37
C106	WRITE EPRs	37
E249	PROCESS DIFM ITEMS	36
A5	COORDINATE CALIBRATION OF SPECIAL TOOLS WITH PRECISION MEASUREMENT EQUIPMENT LABORATORY (PMEL)	35
E218	MAINTAIN DUE-IN FROM MAINTENANCE (DIFM) TRANSACTION ROSTERS	34
E227	MAINTAIN PRECISION MEASUREMENT EQUIPMENT (PME) CALIBRATION SCHEDULES	34
E255	REVIEW AF FORMS 2413 (SUPPLY CONTROL LOG)	33
E153	ANNOTATE AF FORMS 1800 (OPERATOR'S INSPECTION GUIDE AND TROUBLE REPORT (GENERAL PURPOSE VEHICLES))	33
E189	EVALUATE SERVICEABILITY OF EQUIPMENT OR SUPPLIES	32
E245	PICK UP OR DELIVER EQUIPMENT, SUPPLIES, OR TOOLS FROM SUPPLY POINTS	32
E250	RESEARCH MICROFICHE FILES FOR SUPPLY REQUISITION DATA	32
E179	COMPLETE DD FORMS 1348-1 (DOD SINGLE LINE ITEM RELEASE/ RECEIPT DOCUMENT)	31
E251	RESEARCH TECHNICAL ORDERS TO IDENTIFY COMPONENTS OR ITEMS OF EQUIPMENT	31

TABLE A7

QUALITY ASSURANCE EVALUATION (QAE)
(STG333)

NUMBER IN GROUP: 61
PERCENT OF SAMPLE: 2%

AVERAGE TIME IN JOB: 31 MONTHS
AVERAGE TAFMS: 171 MONTHS

THE FOLLOWING TASKS ARE IN DESCENDING ORDER OF PERCENT MEMBERS PERFORMING:

TASKS		PERCENT MEMBERS PERFORMING
G523	INSPECT AIRCRAFT TIRES	98
F319	INSPECT ACCESS PANELS	98
F318	INSPECT ACCESS DOORS OR HATCHES	98
F342	INSPECT RADOMES	97
I704	INSPECT FLIGHT CONTROL SURFACES	97
F322	INSPECT AIRCRAFT SHOCK STRUTS	95
F320	INSPECT AIRCRAFT FOR CORROSION	95
G543	INSPECT LANDING GEAR STRUTS	95
G526	INSPECT BRAKE SYSTEM COMPONENTS	95
F334	INSPECT FIRE EXTINGUISHERS	95
G532	INSPECT LANDING GEAR DOOR MECHANISMS	93
F329	INSPECT CREW ENTRANCE DOOR MECHANICAL COMPONENTS	93
F345	INSPECT SEATS, SEATBELTS, INERTIAL REELS, OR SHOULDER HARNESSES	93
F353	INSPECT WINDOWS OR WINDSHIELDS	92
F330	INSPECT CREW ENTRANCE DOOR SYSTEMS	92
G531	INSPECT LANDING GEAR DOOR ACTUATING COMPONENTS	92
G550	INSPECT NOSEWHEEL STEERING SYSTEMS	92
K848	INSPECT EXTERNAL LIGHTS	92
F344	INSPECT SEAT LOCKING MECHANISMS	92
K844	INSPECT AIRCRAFT BATTERIES	92
F326	INSPECT CARGO DOORS OR RAMP MECHANICAL COMPONENTS	90
G545	INSPECT LANDING GEAR SYSTEM HYDRAULIC COMPONENTS	90
I772	INSPECT HYDRAULIC SYSTEM RESERVOIRS	90
C81	EVALUATE PERSONNEL FOR COMPLIANCE WITH PERFORMANCE STANDARDS OR TECHNICAL ORDERS	89
G535	INSPECT LANDING GEAR EMERGENCY EXTENSION MECHANISMS	89

TABLE A8

TRANSIENT ALERT
(GRP139)

NUMBER IN GROUP: 51
PERCENT OF SAMPLE: 2%

AVERAGE TIME IN JOB: 37 MONTHS
AVERAGE TAFMS: 87 MONTHS

THE FOLLOWING TASKS ARE IN DESCENDING ORDER OF PERCENT MEMBERS PERFORMING:

TASKS		PERCENT MEMBERS PERFORMING
F411	PERFORM SINGLE-POINT AIRCRAFT REFUELING OR DEFUELING	92
F413	POSITION AGE TO AIRCRAFT	90
F416	POSITION FIRE EXTINGUISHERS	90
F370	PERFORM FOREIGN OBJECT DAMAGE (FOD) WALKS	88
F417	POSITION OR REMOVE AIRCRAFT CHOCKS OR PINS	86
F317	GROUND AIRCRAFT	86
F361	MARSHAL AIRCRAFT	84
F500	TOW AIRCRAFT	84
F410	PERFORM PREUSE INSPECTION OF TOW VEHICLES	82
F501	TOW NONPOWERED AGE	80
F511	WALK WINGS OR TAILS DURING AIRCRAFT TOWING OPERATIONS	80
F306	CONNECT OR DISCONNECT EXTERNAL ELECTRICAL AIRCRAFT POWER	80
F407	PERFORM PREUSE INSPECTION OF MAINTENANCE STANDS	80
F406	PERFORM PREUSE INSPECTION OF LOX SERVICING EQUIPMENT	78
F358	LAUNCH OR RECOVER AIRCRAFT	76
F398	PERFORM PREUSE INSPECTION OF GASEOUS OXYGEN SERVICING EQUIPMENT	75
F397	PERFORM PREUSE INSPECTION OF GASEOUS NITROGEN SERVICING EQUIPMENT	75
F390	PERFORM OVER-THE-WING AIRCRAFT REFUELING OR DEFUELING	73
F409	PERFORM PREUSE INSPECTION OF PORTABLE LIGHTING EQUIPMENT	73
F399	PERFORM PREUSE INSPECTION OF GENERATORS	71
G523	INSPECT AIRCRAFT TIRES	71
F497	TAKE ENGINE OIL SAMPLES	67
F489	SERVICE AIRCRAFT TIRES	67
F311	DIRECT AIRCRAFT REFUELING OR DEFUELING OPERATIONS	65
F494	SERVICE ENGINES WITH OIL	65
E259	REVIEW AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF FORMS 781 SERIES	65
F356	INVENTORY CTKs	65
F391	PERFORM PREUSE INSPECTION OF AIR COMPRESSORS	65
E204	INITIATE OR ANNOTATE AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF FORMS 781 SERIES	65
F400	PERFORM PREUSE INSPECTION OF GROUND HEATERS AND BLOWERS	63
F487	SERVICE AIRCRAFT LOX SYSTEMS	63

TABLE A9

TECHNICAL ORDER MONITOR
(STG077)

NUMBER IN GROUP: 49
PERCENT OF SAMPLE: 2%

AVERAGE TIME IN JOB: 22 MONTHS
AVERAGE TAFMS: 102 MONTHS

THE FOLLOWING TASKS ARE IN DESCENDING ORDER OF PERCENT MEMBERS PERFORMING:

TASKS		PERCENT MEMBERS PERFORMING
B40	DIRECT MAINTENANCE OF TECHNICAL ORDER FILES	88
E237	MAINTAIN TECHNICAL ORDER PUBLICATION FILES	86
E261	REVIEW TECHNICAL ORDER CHANGES	80
E205	INITIATE OR ANNOTATE TECHNICAL ORDER SYSTEM FORMS, SUCH AS AFTO FORMS 22, 27, 110, 110A, 110B, AND 131	78
E172	COMPLETE AFTO FORMS 187 (TECHNICAL ORDER PUBLICATIONS REQUEST)	73
E262	REVIEW TECHNICAL ORDER SYSTEM FORMS, SUCH AS AFTO FORMS 22, 27, 110, 110A, 110B, AND 131	69
E238	MAINTAIN TIME COMPLIANCE TECHNICAL ORDERS (TCTO)	57
A10	DETERMINE WORK PRIORITIES	55
A9	DETERMINE PUBLICATION REQUIREMENTS	51
A13	DEVELOP SELF-INSPECTION PROGRAMS	43
A19	PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS, BRIEFINGS, CONFERENCES , OR WORKSHOPS, OTHER THAN CONDUCTING	43
E221	MAINTAIN INSPECTION CARDS OR ITEMS REQUIRING PERIODIC INSPECTIONS	39
A22	PLAN OR SCHEDULE WORK PRIORITIES	39
C103	PERFORM SELF-INSPECTIONS	37
B39	DIRECT MAINTENANCE OF PUBLICATION FILES, OTHER THAN TECHNICAL ORDER FILES	35
A14	DEVELOP WORK METHODS OR PROCEDURES	35
C81	EVALUATE PERSONNEL FOR COMPLIANCE WITH PERFORMANCE STANDARDS OR TECHNICAL ORDERS	35
E224	MAINTAIN MICROFICHE STOCK FILES	33
D112	ANNOTATE TRAINING RECORDS	33
B48	IMPLEMENT SELF-INSPECTION PROGRAMS	31
C63	ANALYZE WORKLOAD REQUIREMENTS	31
E190	INITIATE AF FORMS 1297 (TEMPORARY ISSUE RECEIPT)	31
E268	VERIFY RECEIPT OF TCTO CHANGES	29
B38	DIRECT MAINTENANCE OF ADMINISTRATIVE FILES	29
A18	ESTABLISH WORK SCHEDULES	29
C98	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	29
D121	DETERMINE TRAINING REQUIREMENTS	29
E251	RESEARCH TECHNICAL ORDERS TO IDENTIFY COMPONENTS OR ITEMS OF EQUIPMENT	27

TABLE A10

FLIGHTLINE EXPEDITOR
(STG270)

NUMBER IN GROUP: 40
PERCENT OF SAMPLE: 1%

AVERAGE TIME IN JOB: 43 MONTHS
AVERAGE TAFMS: 198 MONTHS

THE FOLLOWING TASKS ARE IN DESCENDING ORDER OF PERCENT MEMBERS PERFORMING:

TASKS		PERCENT MEMBERS PERFORMING
A10	DETERMINE WORK PRIORITIES	95
B36	DIRECT FLIGHTLINE MAINTENANCE ACTIVITIES	93
C65	CLEAR RED X CONDITIONS	93
B56	SUPERVISE AIRLIFT AIRCRAFT MAINTENANCE TECHNICIANS (AFSC 45772)	90
A1	ASSIGN MAINTENANCE AND REPAIR WORK	85
A7	COORDINATE MAINTENANCE PROBLEMS WITH MAINTENANCE CONTROL OR APPROPRIATE AGENCIES	83
E204	INITIATE OR ANNOTATE AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF FORMS 781 SERIES	73
B55	SUPERVISE AIRLIFT AIRCRAFT MAINTENANCE SPECIALISTS (AFSC 45752A)	68
E153	ANNOTATE AF FORMS 1800 (OPERATOR'S INSPECTION GUIDE AND TROUBLE REPORT (GENERAL PURPOSE VEHICLES))	68
B62	SUPERVISE MILITARY PERSONNEL WITH AFSC OTHER THAN 457X2	65
E259	REVIEW AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF FORMS 781 SERIES	63
C106	WRITE EPRs	60
C98	INSPECT PERSONNEL FOR COMPLIANCE WITH MILITARY STANDARDS	60
A22	PLAN OR SCHEDULE WORK PRIORITIES	58
E175	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	53
C64	CERTIFY STATUS OF PARTS, SUCH AS REPARABLE, SERVICEABLE, OR CONDEMNED	50
A6	COORDINATE CANNIBALIZATION OF PARTS WITH MATERIEL SUPPORT	48
C108	WRITE RECOMMENDATIONS FOR AWARDS OR DECORATIONS	48
C101	PERFORM IN-PROCESS INSPECTIONS	45
B33	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS	43
B61	SUPERVISE CIVILIAN PERSONNEL	40
C63	ANALYZE WORKLOAD REQUIREMENTS	40
A21	PLAN OR SCHEDULE WORK ASSIGNMENTS	40
A4	COORDINATE AIRCRAFT LAUNCH AND RECOVERY TIMES WITH AIRCREWS OR APPROPRIATE AGENCIES	40
C95	INDORSE ENLISTED PERFORMANCE REPORTS (EPR)	40
C73	EVALUATE IN-PROCESS MAINTENANCE	40
P982	ACCESS CAMS MENUS	40
F413	POSITION AGE TO AIRCRAFT	40

TABLE A11

ISOCHRONAL INSPECTOR
(GRP138)

NUMBER IN GROUP: 38
PERCENT OF SAMPLE: 1%

AVERAGE TIME IN JOB: 44 MONTHS
AVERAGE TAFMS: 139 MONTHS

THE FOLLOWING TASKS ARE IN DESCENDING ORDER OF PERCENT MEMBERS PERFORMING:

TASKS		PERCENT MEMBERS PERFORMING
F306	CONNECT OR DISCONNECT EXTERNAL ELECTRICAL AIRCRAFT POWER	97
F317	GROUND AIRCRAFT	97
F360	LUBRICATE AIRCRAFT COMPONENTS	93
F319	INSPECT ACCESS PANELS	90
F500	TOW AIRCRAFT	87
A1	ASSIGN MAINTENANCE AND REPAIR WORK	87
F416	POSITION FIRE EXTINGUISHERS	87
F407	PERFORM PREUSE INSPECTION OF MAINTENANCE STANDS	87
F363	OPEN OR CLOSE ENGINE COWLINGS	87
F434	REMOVE, REPLACE, OR REINSTALL AIRCRAFT HARDWARE, SUCH AS SCREWS OR FASTENERS	83
E259	REVIEW AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF FORMS 781 SERIES	83
F320	INSPECT AIRCRAFT FOR CORROSION	83
C106	WRITE EPRs	83
E177	COMPLETE DANGER TAGS, SUCH AS AF FORMS 979 AND 1492	83
F367	OPERATE AIRCRAFT INTERPHONES	83
F430	REMOVE, REPLACE, OR REINSTALL ACCESS PANELS	80
A10	DETERMINE WORK PRIORITIES	80
F477	REMOVE, REPLACE, OR REINSTALL WING LEADING EDGES	80
F318	INSPECT ACCESS DOORS OR HATCHES	80
F411	PERFORM SINGLE-POINT AIRCRAFT REFUELING OR DEFUELING	80
D112	ANNOTATE TRAINING RECORDS	77
B33	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS	77
F311	DIRECT AIRCRAFT REFUELING OR DEFUELING OPERATIONS	77
G523	INSPECT AIRCRAFT TIRES	77
F370	PERFORM FOREIGN OBJECT DAMAGE (FOD) WALKS	73
F312	DIRECT AIRCRAFT TOWING OPERATIONS	73
E175	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	73
K848	INSPECT EXTERNAL LIGHTS	73
F364	OPEN OR CLOSE RADOMES	73
F375	PERFORM OPERATIONAL CHECKS OF CARGO DOORS OR RAMPS	73

TABLE A12

FLIGHTLINE INSPECTOR
(STG340)

NUMBER IN GROUP: 22
PERCENT OF SAMPLE: LESS THAN 1%

AVERAGE TIME IN JOB: 34 MONTHS
AVERAGE TAFMS: 68 MONTHS

THE FOLLOWING TASKS ARE IN DESCENDING ORDER OF PERCENT MEMBERS PERFORMING:

TASKS		PERCENT MEMBERS PERFORMING
F367	OPERATE AIRCRAFT INTERPHONES	100
F317	GROUND AIRCRAFT	95
F334	INSPECT FIRE EXTINGUISHERS	95
F322	INSPECT AIRCRAFT SHOCK STRUTS	95
F319	INSPECT ACCESS PANELS	95
F327	INSPECT CARGO RAMP SEALS	95
F342	INSPECT RADOMES	95
F361	MARSHAL AIRCRAFT	91
F321	INSPECT AIRCRAFT LOX SYSTEMS	91
F330	INSPECT CREW ENTRANCE DOOR SYSTEMS	91
F318	INSPECT ACCESS DOORS OR HATCHES	91
F331	INSPECT CREW ENTRANCE LADDERS	91
F339	INSPECT LIFERAFT RELEASE MECHANISMS, OTHER THAN LIFERAFT DOORS	91
F358	LAUNCH OR RECOVER AIRCRAFT	86
F360	LUBRICATE AIRCRAFT COMPONENTS	86
F363	OPEN OR CLOSE ENGINE COWLINGS	86
F341	INSPECT PRESSURE DOOR SEALS, SUCH AS CREW ENTRANCE DOOR OR VISOR SEALS	86
F329	INSPECT CREW ENTRANCE DOOR MECHANICAL COMPONENTS	86
F337	INSPECT GALLEYS	86
F340	INSPECT LIFERAFT STOWAGE OR SECURING SYSTEMS	86
F338	INSPECT LIFERAFT DOOR RELEASE MECHANISMS	86
F320	INSPECT AIRCRAFT FOR CORROSION	82
F345	INSPECT SEATS, SEATBELTS, INERTIAL REELS, OR SHOULDER HARNESSES	82
F333	INSPECT CREW POSITION WORK TABLES	82
F326	INSPECT CARGO DOORS OR RAMP MECHANICAL COMPONENTS	82
F324	INSPECT ANTENNAS	82
F344	INSPECT SEAT LOCKING MECHANISMS	82
F306	CONNECT OR DISCONNECT EXTERNAL ELECTRICAL AIRCRAFT POWER	77
F368	OPERATE AIRCRAFT RADIOS	77
F332	INSPECT CREW OR PASSENGER COMFORT FACILITIES	77

TABLE A13

FLIGHT MECHANIC
(STG443)

NUMBER IN GROUP: 18
PERCENT OF SAMPLE: LESS THAN 1%

AVERAGE TIME IN JOB: 54 MONTHS
AVERAGE TAFMS: 158 MONTHS

THE FOLLOWING TASKS ARE IN DESCENDING ORDER OF PERCENT MEMBERS PERFORMING:

TASKS		PERCENT MEMBERS PERFORMING
F319	INSPECT ACCESS PANELS	100
K854	PERFORM OPERATIONAL CHECKS OF AIRCRAFT BATTERIES	100
K856	PERFORM OPERATIONAL CHECKS OF EXTERNAL LIGHTS	100
F318	INSPECT ACCESS DOORS OR HATCHES	94
F367	OPERATE AIRCRAFT INTERPHONES	94
G526	INSPECT BRAKE SYSTEM COMPONENTS	94
K857	PERFORM OPERATIONAL CHECKS OF INTERNAL LIGHTS	94
F417	POSITION OR REMOVE AIRCRAFT CHOCKS OR PINS	89
F411	PERFORM SINGLE-POINT AIRCRAFT REFUELING OR DEFUELING	89
I772	INSPECT HYDRAULIC SYSTEM RESERVOIRS	89
I769	INSPECT HYDRAULIC SYSTEM PLUMBING	89
F322	INSPECT AIRCRAFT SHOCK STRUTS	89
G523	INSPECT AIRCRAFT TIRES	89
I715	PERFORM OPERATIONAL CHECKS OF PITCH TRIM SYSTEMS	89
I719	PERFORM OPERATIONAL CHECKS OF WING FLAP SYSTEMS	89
I718	PERFORM OPERATIONAL CHECKS OF SPOILER SYSTEMS	89
F334	INSPECT FIRE EXTINGUISHERS	89
F368	OPERATE AIRCRAFT RADIOS	89
K823	INSPECT FUEL VENT OUTLETS	89
F342	INSPECT RADOMES	89
G550	INSPECT NOSEWHEEL STEERING SYSTEMS	89
G545	INSPECT LANDING GEAR SYSTEM HYDRAULIC COMPONENTS	89
K848	INSPECT EXTERNAL LIGHTS	89
G543	INSPECT LANDING GEAR STRUTS	89
K851	INSPECT INTERNAL LIGHTS	89
K849	INSPECT EXTERNAL POWER RECEPTACLES	89
I766	INSPECT HYDRAULIC SYSTEM ACTUATORS	83
I773	INSPECT HYDRAULIC SYSTEM SIGHT GAUGES	83
I767	INSPECT HYDRAULIC SYSTEM FILTERS	83
G547	INSPECT LANDING GEAR UP LOCK MECHANISMS	83

TABLE A14

TRAINING INSTRUCTOR
(STG471)

NUMBER IN GROUP: 16 AVERAGE TIME IN JOB: 47 MONTHS
PERCENT OF SAMPLE: LESS THAN 1% AVERAGE TAFMS: 174 MONTHS

THE FOLLOWING TASKS ARE IN DESCENDING ORDER OF PERCENT MEMBERS PERFORMING:

	TASKS	PERCENT MEMBERS PERFORMING
D140	MAINTAIN TRAINING RECORDS, CHARTS, GRAPHS, OR FILES	100
D112	ANNOTATE TRAINING RECORDS	100
D127	DIRECT OR IMPLEMENT TRAINING PROGRAMS	94
D120	COUNSEL TRAINEES ON TRAINING PROGRESS	94
D130	EVALUATE EFFECTIVENESS OF TRAINING PROGRAMS	94
D134	EVALUATE TRAINERS OR TRAINEES	94
A19	PARTICIPATE IN MEETINGS, SUCH AS STAFF MEETINGS, BRIEFINGS, CONFERENCES, OR WORKSHOPS, OTHER THAN CONDUCTING	94
D133	EVALUATE PROGRESS OF TRAINEES	88
D126	DEVELOP TRAINING AIDS	88
D136	EVALUATE TRAINING METHODS OR TECHNIQUES	88
D121	DETERMINE TRAINING REQUIREMENTS	81
D111	ADMINISTER TESTS	81
D141	PLAN OR SCHEDULE TRAINING, SUCH AS OJT, QTP, AND ANCILLARY TRAINING	81
D132	EVALUATE PERSONNEL FOR TRAINING NEEDS	81
B33	COUNSEL PERSONNEL ON PERSONAL OR MILITARY-RELATED MATTERS	81
D123	DEVELOP FORMAL COURSE CURRICULA, PLANS OF INSTRUCTION (POI), OR SPECIALTY TRAINING STANDARDS (STS)	75
D149	SCORE TESTS	75
D117	CONDUCT SAFETY OR SECURITY TRAINING	75
D135	EVALUATE TRAINING MATERIALS OR AIDS	75
D137	INFORM UNIT STAFF PERSONNEL ON TRAINING MATTERS	75
D116	CONDUCT RESIDENT COURSE CLASSROOM TRAINING	69
D145	PREPARE LESSON PLANS	69
D114	CONDUCT OJT	69
D143	PREPARE INSTRUCTION TRAINING AREAS OR FACILITIES	69
C106	WRITE EPRs	69
D124	DEVELOP NEW EQUIPMENT TRAINING PROGRAMS	63
D119	COORDINATE TRAINING SCHEDULES WITH AFFECTED ACTIVITIES	63
D147	PROCURE TRAINING AIDS, SPACE, OR EQUIPMENT	63
C81	EVALUATE PERSONNEL FOR COMPLIANCE WITH PERFORMANCE STANDARDS OR TECHNICAL ORDERS	63
D131	EVALUATE INSTRUCTOR PERFORMANCE	63

TABLE A15

WHEEL AND TIRE
(STG525)

NUMBER IN GROUP: 11 AVERAGE TIME IN JOB: 17 MONTHS
PERCENT OF SAMPLE: LESS THAN 1% AVERAGE TAFMS: 111 MONTHS

THE FOLLOWING TASKS ARE IN DESCENDING ORDER OF PERCENT MEMBERS PERFORMING:

TASKS		PERCENT MEMBERS PERFORMING
F298	BUILD UP WHEEL AND TIRE ASSEMBLIES	100
G551	INSPECT WHEEL ASSEMBLIES	100
G552	INSPECT WHEEL BEARINGS	100
F297	BREAK DOWN WHEEL AND TIRE ASSEMBLIES	91
G523	INSPECT AIRCRAFT TIRES	91
G553	PACK WHEEL BEARINGS	91
F489	SERVICE AIRCRAFT TIRES	91
F302	CLEAN AIRCRAFT WHEELS	91
F323	INSPECT AIRCRAFT WHEEL AND TIRE BEAD BREAKERS	91
E175	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	91
F350	INSPECT TIRE INFLATION CAGES	91
P988	OPEN CAMS	82
P986	CLOSE CAMS	82
P982	ACCESS CAMS MENUS	82
P991	PERFORM CAMS INQUIRY FOR UNCOMPLETED MAINTENANCE EVENT LISTINGS	82
E217	MAINTAIN COMPOSITE TOOL KITS (CTK)	82
E212	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	82
P983	ACCESS CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) DATA SCREENS	73
F391	PERFORM PREUSE INSPECTION OF AIR COMPRESSORS	73
E161	ATTACH OR ANNOTATE EQUIPMENT STATUS LABELS OR TAGS, SUCH AS DD FORMS 1574 (SERVICEABLE TAG-MATERIEL)	73
E216	MAINTAIN BENCHSTOCK PARTS OR EQUIPMENT LEVELS	73
E249	PROCESS DIFM ITEMS	64
F356	INVENTORY CTKs	64
C64	CERTIFY STATUS OF PARTS, SUCH AS REPARABLE, SERVICEABLE, OR CONDEMNED	64
E159	ANNOTATE OR COMPLETE AF FORMS 2413 (SUPPLY CONTROL LOG)	64
E255	REVIEW AF FORMS 2413 (SUPPLY CONTROL LOG)	64
A5	COORDINATE CALIBRATION OF SPECIAL TOOLS WITH PRECISION MEASUREMENT EQUIPMENT LABORATORY (PMEL)	64
E163	COMPLETE AF FORMS 2005 (ISSUE/TURN-IN REQUEST)	64
P990	PERFORM CAMS INQUIRY FOR TRAINING STATUS	55
E173	COMPLETE AFTO FORMS 244 AND 245 (INDUSTRIAL/SUPPORT EQUIPMENT RECORD)	55

TABLE A16

SUPPLY
(STG487)

NUMBER IN GROUP: 11
PERCENT OF SAMPLE: LESS THAN 1%

AVERAGE TIME IN JOB: 34 MONTHS
AVERAGE TAFMS: 76 MONTHS

THE FOLLOWING TASKS ARE IN DESCENDING ORDER OF PERCENT MEMBERS PERFORMING:

TASKS		PERCENT MEMBERS PERFORMING
E175	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	100
E249	PROCESS DIFM ITEMS	100
E163	COMPLETE AF FORMS 2005 (ISSUE/TURN-IN REQUEST)	100
E159	ANNOTATE OR COMPLETE AF FORMS 2413 (SUPPLY CONTROL LOG)	91
E251	RESEARCH TECHNICAL ORDERS TO IDENTIFY COMPONENTS OR ITEMS OF EQUIPMENT	91
E246	PREPARE DOCUMENTATION TO TURN IN EXCESS OR SURPLUS PROPERTY	91
E255	REVIEW AF FORMS 2413 (SUPPLY CONTROL LOG)	82
E184	COORDINATE OBTAINING PARTS WITH BASE SUPPLY	82
P982	ACCESS CAMS MENUS	82
E250	RESEARCH MICROFICHE FILES FOR SUPPLY REQUISITION DATA	82
E179	COMPLETE DD FORMS 1348-1 (DOD SINGLE LINE ITEM RELEASE/ RECEIPT DOCUMENT)	82
E196	INITIATE AF FORMS 451 (REQUEST FOR PACKAGING SERVICE)	82
P989	PERFORM CAMS INQUIRY FOR SCHEDULED AIRCRAFT DISCREPANCIES	73
P983	ACCESS CORE AUTOMATED MAINTENANCE SYSTEM (CAMS) DATA SCREENS	73
E245	PICK UP OR DELIVER EQUIPMENT, SUPPLIES, OR TOOLS FROM SUPPLY POINTS	73
E161	ATTACH OR ANNOTATE EQUIPMENT STATUS LABELS OR TAGS, SUCH AS DD FORMS 1574 (SERVICEABLE TAG-MATERIEL)	55
E266	VALIDATE SUPPLY TRANSACTION LISTINGS, SUCH AS D04, D18, D19, D23, AND M30	55
P991	PERFORM CAMS INQUIRY FOR UNCOMPLETED MAINTENANCE EVENT LISTINGS	55
E174	COMPLETE AFTO FORMS 349 (MAINTENANCE DATA COLLECTION RECORD)	55
P990	PERFORM CAMS INQUIRY FOR TRAINING STATUS	55
E269	WRITE LETTERS OF JUSTIFICATION FOR SUPPLY RELATED MATTERS	55
E214	LOG TURN-IN OF EQUIPMENT AND SUPPLIES	45
E218	MAINTAIN DUE-IN FROM MAINTENANCE (DIFM) TRANSACTION ROSTERS	45
E267	VERIFY MISSION CAPABILITY (MICAP) CONDITIONS	45
E236	MAINTAIN SUPPLY TRANSACTION LISTINGS, SUCH AS D04, D18, D19, D23, AND M30	45
E265	VALIDATE DIFM TRANSACTION ROSTERS	45
E190	INITIATE AF FORMS 1297 (TEMPORARY ISSUE RECEIPT)	45

TABLE A17

REFURBISHMENT MECHANIC
(STG399)

NUMBER IN GROUP: 10 AVERAGE TIME IN JOB: 38 MONTHS
PERCENT OF SAMPLE: LESS THAN 1% AVERAGE TAFMS: 51 MONTHS

THE FOLLOWING TASKS ARE IN DESCENDING ORDER OF PERCENT MEMBERS PERFORMING:

TASKS		PERCENT MEMBERS PERFORMING
F306	CONNECT OR DISCONNECT EXTERNAL ELECTRICAL AIRCRAFT POWER	100
F360	LUBRICATE AIRCRAFT COMPONENTS	100
F319	INSPECT ACCESS PANELS	100
F304	CLEAN INTERIOR OF AIRCRAFT, SUCH AS CREW COMPARTMENTS OR CARGO COMPARTMENTS	100
F370	PERFORM FOREIGN OBJECT DAMAGE (FOD) WALKS	100
F331	INSPECT CREW ENTRANCE LADDERS	100
F434	REMOVE, REPLACE, OR REINSTALL AIRCRAFT HARDWARE, SUCH AS SCREWS OR FASTENERS	90
F318	INSPECT ACCESS DOORS OR HATCHES	90
F320	INSPECT AIRCRAFT FOR CORROSION	90
F337	INSPECT GALLEYS	90
F317	GROUND AIRCRAFT	90
F345	INSPECT SEATS, SEATBELTS, INERTIAL REELS, OR SHOULDER HARNESSES	90
F367	OPERATE AIRCRAFT INTERPHONES	90
E177	COMPLETE DANGER TAGS, SUCH AS AF FORMS 979 AND 1492	90
E175	COMPLETE AFTO FORMS 350 (REPARABLE ITEM PROCESSING TAG)	90
F420	REFURBISH AIRCRAFT INTERIOR OR EXTERIOR SURFACES	80
F430	REMOVE, REPLACE, OR REINSTALL ACCESS PANELS	80
F416	POSITION FIRE EXTINGUISHERS	80
F449	REMOVE, REPLACE, OR REINSTALL CREW SEATS	80
F344	INSPECT SEAT LOCKING MECHANISMS	80
F413	POSITION AGE TO AIRCRAFT	80
E176	COMPLETE AIRCRAFT INSPECTION WORKCARDS	70
F511	WALK WINGS OR TAILS DURING AIRCRAFT TOWING OPERATIONS	70
F334	INSPECT FIRE EXTINGUISHERS	70
F463	REMOVE, REPLACE, OR REINSTALL SEATBELTS OR SHOULDER HARNESSES	70
F436	REMOVE, REPLACE, OR REINSTALL AIRCRAFT PROTECTIVE COVERINGS	70
F386	PERFORM OPERATIONAL CHECKS OF SEAT ADJUSTMENT SYSTEMS	70
E212	INVENTORY EQUIPMENT, TOOLS, OR SUPPLIES	70
F379	PERFORM OPERATIONAL CHECKS OF CREW ENTRANCE DOORS OR LADDERS	70
E259	REVIEW AIRCRAFT FLIGHT OR MAINTENANCE RECORDS, SUCH AS AF FORMS 781 SERIES	70