

TASK ANALYSIS

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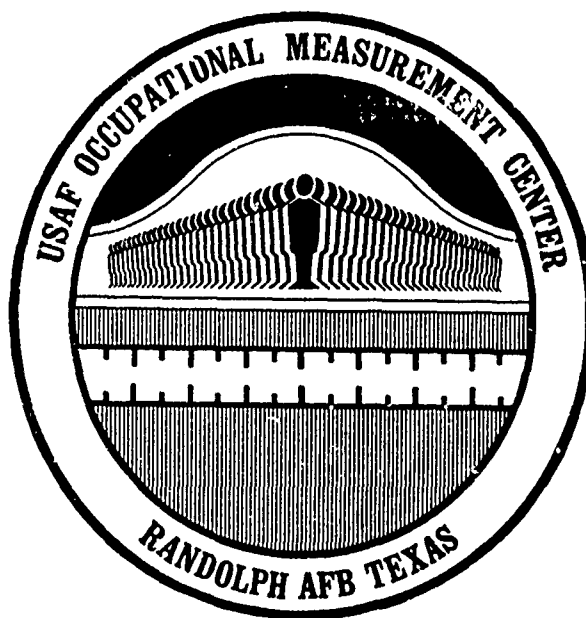
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23 TFW/MA England AFB LA 71311-5004	1
27 TFW/MA Cannon AFB NM 88103-5000	1
31 TFW/MA Homestead AFB FL 33039-5000	1
33 TFW/MA Eglin AFB FL 32542-6064	1
37 TFW/MA George AFB CA 92394-5000	1
42 BW/MA Loring AFB ME 04751-5000	1
49 TFW/MA Holloman AFB NM 88330-5000	1
56 TTW/MA MacDill AFB FL 33608-5000	1
60 MAW/MA Travis AFB CA 94535-5000	1
62 MAW/MA McChord AFB WA 98438-5000	1
63 MAW/MA Norton AFB CA 92409-5486	1
92 BW/MA Fairchild AFB WA 99011-5000	1
93 BW/MA Castle AFB CA 95342-5000	1
96 BMW(H)/MA Dyess AFB TX 79607-5000	1
97 BMW(H)/MA Eaker AFB AR 72315-5001	1
314 TAW/MA Little Rock AFB AR 72099-5000	1
317 TAW/MA Pope AFB NC 28308-5000	1
319 BW/MA Grand Forks AFB ND 58205-5000	1
325 TTW/MA Tyndall AFB FL 32403-5000	1
347 TFW/MA Moody AFB GA 31699-5000	1

354 TFW/MA Myrtle Beach AFB SC 29579-5000	1
363 TFW/MA Shaw AFB SC 29152-5000	1
366 TFW/MA Mountain Home AFB ID 83648-5000	1
375 AAW/MA Scott AFB IL 62225-5000	1
379 BW/MA Wurtsmith AFB MI 48753-5000	1
380 BW/MA Plattsburgh AFB NY 12903-5000	1
410 BW/MA K.I. Sawyer AFB MI 49843-5000	1
416 BW/MA Griffiss AFB NY 13441-5000	1
436 MAW/MA Dover AFB DE 19901-5000	1
437 MAW/MA Charleston AFB SC 29404-5000	1
438 MAW/MA McGuire AFB NJ 08641-5486	1
463 TAW/MA Dyess AFB TX 79607-5000	1
474 TFW/MA Nellis AFB NV 89191-5000	1
509 BW/MA Pease AFB NH 03803-5000	1
602 TACW/MA Davis-Monthan AFB AZ 85707-5000	1
832 AD/CC Luke AFB AZ 85309-5000	1
834 EMS/MA Hurlburt Field FL 32544-5000	1
1100 ABW/MA Bolling AFB DC 20332-5000	1
1606 ABW/MA Kirtland AFB NM 87117-5000	1
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3246 TESTW/CC Eglin AFB FL 32542-5000	1
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3330 TCHTW/TTGXW Chanute AFB IL 61868-5000	1
3340 TCHTG/TTOT Chanute AFB IL 61868-5000	1
3340 TCHTG/TTMM Chanute AFB IL 61868-5000	6
3700 TCHTW/TTGXD Sheppard AFB TX 76311-5000	1
3770 TCHTG/TTOT Sheppard AFB TX 76311-5000	1
3770 TCHTG/TTGIC Sheppard AFB TX 76311-5000	6



STATEMENT "A" per Viola Hebert
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TRAINING DEVELOPMENT SERVICES DIVISION

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FORWARD

Our sincere appreciation is extended to the following personnel who took time away from their regular duties to assist us in our data collection for this document.

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PREFACE

This document provides task analysis data for Aircraft Structural Maintenance, AFSC 458X2. Task analysis is a major portion of a Training Requirements Analysis (TRA). This Task Analysis Report is provided separately, as an interim document, to support the development of resident and nonresident training for AFSC 458X2. In addition to the task analysis data provided in this report, a TRA would also include Systems Overview and Training Recommendations sections.

The United States Air Force Occupational Measurement Center, Training Development Services Division (USAFOMC/OMT), is assigned primary responsibility for developing TRAs for Air Force specialties. TRAs provide comprehensive data describing specialty training requirements for the 3-, 5-, and 7-skill levels. They provide a basis for revision or development of Specialty Training Standards (STSs), initial skill training, on-the-job training (OJT), and Career Development Courses (CDCs). TRAs fulfill most requirements of Steps 1 and 2 of the Instructional Systems Development (ISD) model prescribed in AFM 50-2. TRAs assist Air Force officials in making informed data-based training decisions. This Task Analysis Report has been reviewed and approved by the Training Development Services Division, USAFOMC/OMT.

Copies of this document are available to Air Force training and management officials. Address requests to USAFOMC/OMT, Randolph AFB TX 78150-5000, or Detachment 2 USAFOMC, Chanute AFB IL 61868-5000.

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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

Background

This Task Analysis Report was requested by HQ ATC/TTOA to support revision or development of resident and on-the-job training for the Aircraft Structural Maintenance Specialty, AFSC 458X2. A Rivet Implementation Planning Meeting (RIPM) was held in May 1988 at Chanute AFB, Illinois. The purpose of the meeting was to plan the restructuring of AFSCs 427X1 and 427X5 to form AFSC 458X2. Participants included Air Staff and MAJCOM functional managers, ATC training developers, and subject matter experts from operational units. They developed standards for the new speciality including the Specialty Training Standard (STS), Command Job Qualification Standards (CJQSs), training course outlines, and changes to AFR 39-1. A three-year transition period was established to allow for effective restructuring of personnel utilization and training. This task analysis report was developed by Detachment 2, USAFOMC, to support training development during the transition period. (S00014

Procedures

Task analysis was conducted for AFSC 458X2 during the period of January through May 1989. Analysts from Detachment 2 visited operational units to interview highly qualified technicians selected by their respective commands. One-on-one interviews were conducted at Sheppard AFB, Chanute AFB, Tinker AFB, Dyess AFB, England AFB, Hurlburt Field, Eglin AFB, Charleston AFB, Shaw AFB, and Dover AFB.

This Task Analysis Report is provided to complement and supplement the Occupational Survey Reports (OSRs) and related data provided in the March 1984 and June 1988 OSRs and Training Extracts. USAF Job Inventories from occupational surveys of Corrosion Control, AFSC 427X1, and Airframe Repair, AFSC 427X5, provided the basis for this task analysis. Related job inventory task statements were grouped into clusters and detailed task analysis data were collected to describe each cluster. Occupational survey data (percent members performing, and training emphasis and task difficulty ratings) are displayed with each job inventory task statement. Several additional tasks were identified and analyzed as a result of interviews at field units. The goal was to provide a detailed description of the tasks, activities, skills, and knowledge required to successfully perform the job. Task analysis data also include a description of the conditions and standards of task performance.

Results

A total of 113 task clusters were analyzed. Skill and knowledge requirements were identified for the combined specialties (Airframe and Corrosion Control) as well as unique skill and knowledge requirements for each speciality.

TASK ANALYSIS PROCEDURES

TASK ANALYSIS PROCEDURES

Purpose

This task analysis is a detailed examination of USAF job inventory tasks plus other tasks identified during interviews of personnel assigned to operational units. Our objective was to describe the activities, skills, and knowledge required to perform each task successfully. Other information was collected to describe the conditions and standards for task performance. Our goal was to accomplish a thorough task analysis which will facilitate accurate identification of training requirements.

Data Gathering

USAF Job Inventories for Corrosion Control (AFPT 90-427-777, April 1987) and Airframe Repair (AFPT 90-427-506, October 1982), served as a starting point for this task analysis.

1. Technical tasks. Only the technical tasks of AFSCs 427X1 and 427X5 were analyzed. Therefore, the first step was to review the Job Inventories and identify the non-technical (administrative, supervisory, and training) tasks which could be excluded from task analysis. Subject matter experts (SMEs) reviewed the lists of technical and non-technical tasks to ensure that all tasks had been assigned to the appropriate list.
2. Clustering tasks. The remaining technical tasks from the Job Inventories were then grouped into clusters of related tasks. SMEs assisted in the clustering and verified the appropriateness of the clusters. Each cluster was recorded on a Task Analysis Worksheet.
3. Interviews. Visits were made to conduct one-on-one interviews with experienced subject matter experts selected by their commands. Interviews were conducted at Sheppard AFB, Chanute AFB, Tinker AFB, Dyess AFB, England AFB, Hurlburt Field, Eglin AFB, Charleston AFB, Shaw AFB, and Dover AFB. A minimum of three SMEs provided or reviewed data for each task. All technical tasks in the Job Inventories were analyzed. Several additional tasks were identified during interviews with subject matter experts. These tasks were also analyzed and are reported in this document.

Task Analysis Worksheet (TAW) Format

Task analysis data is presented in the format of Task Analysis Worksheets (TAWs). Each TAW data section is explained below.

TASK #: The TRA task number assigned to the TRA task statement. In cases where the TRA task statement matched the job inventory statement, the job inventory number is given in parentheses following the TRA task statement, e.g., REMOVE FROZEN OR STRIPPED SCREWS (G0212). A TRA task is defined as a comprehensive, goal-oriented, independent, and mutually exclusive unit of work. We have identified TRA tasks which: (a) represent the typical or common assignments given to people on the job, (b) contain a logical

and consistent pattern of activities, (c) result in a meaningful product or service and (d) communicate the same thing to all members of the specialty.

NOTES: This section may be used to record information pertinent to the task, but not addressed in other data sections.

EQUIPMENT: This section lists all equipment, tools, and supplies which may be required to perform the task.

REFERENCES: This section lists the technical publications, regulations, operating instructions, and other documents required to perform the task.

CONDITIONS CUES: This section describes the conditions and constraints under which the task is performed. It may also identify the cue which causes the worker to perform the task.

STANDARDS: This section identifies the criteria a supervisor would use to determine that the task has been adequately accomplished. In most cases, the task must be performed IAW the references listed for the task.

OSR SOURCE: This section presents data associated with the USAFOMC job inventory. This data is presented in columns as follows:

AFSC: Air Force Specialty code.

JOB INV: Job inventory number. This number references the USAFOMC job inventory duty and task number. The number can be cross-referenced to the Activity, Skill, Knowledge, and Related Task sections of the TRA task analysis worksheet.

TNG EMP: Training Emphasis. A rating scale that measures how important it is to include each item in structured training for entry-level personnel. Structured training includes basic resident technical training courses, formal OJT, and CDCs. Training Emphasis is derived from the ratings given by experienced NCOs. A rating of "0" means no training required; "9" indicates extremely high training emphasis.

1ST JOB: First Job. The percentage of members performing the job inventory task during first job.

1ST ENL: First Enlistment. The percentage of members performing the job inventory task during first enlistment.

5 LVL: 5-Level. The percentage of of 5-skill level members performing the job inventory task.

7 LVL: 7-Level. The percentage of 7-skill level members performing the job inventory task.

TSK DIF: Task Difficulty. A rating scale which measures the relative difficulty of job inventory tasks. Difficulty is defined as the length of time required by an average incumbent to learn to do the task. Task difficulty is derived from the ratings given by

experienced NCOs. A rating of "1" indicates extremely low difficulty; "9" indicates high difficulty. Ratings are adjusted so tasks of average difficulty have a mean rating of 5.00 and a standard deviation of 1.00.

ATI: Automated Training Indicator. An index calculated for each job inventory task by an automated program which considers data on training emphasis, task difficulty, and percentage of members performing. ATI indices represent first-enlistment training requirements, for example, "task knowledge and performance." ATI training decision logic and interpretation guidelines are described in ATCR 52-22. ATI guidelines and TRA task analysis were considered in preparing training recommendations for this TRA.

ACTIVITIES SKILLS KNOWLEDGE: This section lists the activities, skills, and knowledge required to perform the TRA task. Related tasks from the job inventory are also listed. Job inventory numbers appear in the left-hand column if job inventory statements are displayed. Definitions used in the task analysis for activities, skills, knowledge, and related tasks are as follows:

ACTIVITIES: A summary of the actions performed during the task. We identified activities which: (a) summarize major parts of the task, (b) do not duplicate existing technical orders or other publications and (c) describe "what" is done rather than "how" the task are done.

SKILLS: General behaviors which usually apply to more than one task. We identified skills which describe "how" something is done rather than "what" is done.

KNOWLEDGE: Mental processes which involve the recall and application of information. We identified knowledge requirements which: (a) are stated in terms of the mental behaviors used on the job, (b) should be taught to someone before performing the task and (c) relate to a significant body of information.

RELATED TASKS: Related tasks are also recorded under the Activities, Skills, and Knowledge Section of the TAW. Related tasks are job inventory tasks which are related to the TRA task, but cannot be classified as activity, skill, or knowledge behaviors. Related tasks will commonly be broader in scope than the TRA task statements or narrower in scope than the activity, skill, or knowledge statements. Related tasks are included on the TAW because they identify similar job inventory items and survey data.

SKILL AND KNOWLEDGE REQUIREMENTS

SKILL AND KNOWLEDGE REQUIREMENTS

The following is a list of the skill and knowledge requirements which are common to three or more tasks performed by Airframe and Corrosion Control personnel. The number of times each skill or knowledge requirement is used in the task analysis is shown under the appropriate column.

Skill Requirements - Airframe and Corrosion Control

AIRFRAME AND CORROSION CONTROL SKILLS	AIRFRAME TASKS	CORROSION CONTROL TASKS	TOTAL TASKS
USE PERSONAL PROTECTIVE EQUIPMENT	62	40	102
USE COMMON HANDTOOLS	64	35	99
USE STANDARD MEASURING INSTRUMENTS	49	18	67
APPLY SOLVENTS	19	31	50
APPLY MASKING MATERIALS	21	24	45
USE VACUUM CLEANERS	32	8	40
USE ABRASIVE PAPER	25	9	34
USE WORKPIECE HOLDING DEVICES	33	1	34
USE PNEUMATIC DRILLS	26	3	29
APPLY PROTECTIVE COATINGS	11	13	24
OPERATE WEIGHT MEASURING SCALES	14	4	18
APPLY SEALANTS	9	4	13
USE WIRE BRUSHES/WHEELS	3	8	11
USE ROTARY FILES/FLAP WHEELS	8	2	10
OPERATE HAND-HELD GRINDERS	5	4	9
USE TEMPLATES	8	1	9
USE MACHINE GUARDS	7	1	8
USE PNEUMATIC SANDERS	4	4	8
OPERATE ABRASIVE BLASTERS	1	5	6
USE MAGNIFYING GLASS	4	1	5
USE VACUUM BLASTERS	1	4	5
APPLY PASSIVATING SOLUTIONS	1	2	3

Skill Requirements - Airframe Only

AIRFRAME SKILLS

TOTAL
TASKS

PREPARE FASTENER HOLES	21
USE REAMING TOOLS	13
USE PNEUMATIC RIVET GUNS	12
APPLY PARTING AGENTS	11
USE MICROSHAVER	7
OPERATE HEATING/CURING EQUIPMENT	6
USE PYROMETER	6
APPLY LIQUID/PASTE ADHESIVES	4
APPLY RESINS	4
OPERATE CONTOUR CUTTING MACHINES	4
OPERATE METAL FORMING MACHINES	4
USE HOLE SAWS	4
OPERATE ROUTERS	3
USE DIMPLING MACHINES	3
USE PNEUMATIC SAWS	3
USE PNEUMATIC SEALANT GUNS	3
USE TAP HAMMER	3

Skill Requirements - Corrosion Control Only

CORROSION CONTROL SKILLS

TOTAL
TASKS

USE EMERGENCY EYE WASH/SHOWERS	18
USE SUCTION FEED SPRAY GUNS	8
APPLY LUBRICANTS	6
APPLY NEUTRALIZING AGENTS	5
IDENTIFY METALS	5
USE STENCILS	5
USE AEROSOL POWER PACKS	4
USE AEROSOL SPRAYS	4
USE STEAM CLEANING EQUIPMENT	4
USE STENCIL MACHINES	4
OPERATE AIRCRAFT WASHERS (10353)	3
USE AIRLESS SPRAY GUNS	3
USE PRESSURE FEED SPRAY GUNS	3
USE VISCOMETER	3

Knowledge Requirements - Airframe and Corrosion Control

AIRFRAME AND CORROSION CONTROL KNOWLEDGE	AIRFRAME TASKS	CORROSION CONTROL TASKS	TOTAL TASKS
INTERPRET TECHNICAL DATA	67	44	111
LOCATE TECHNICAL DATA	67	44	111
RECALL SHOP SAFETY PRECAUTIONS	64	44	108
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING	58	39	97
SELECT COMMON HANDTOOLS	61	32	93
RECALL FLIGHTLINE SAFETY PRECAUTIONS	59	26	85
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)	56	17	73
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)	31	28	59
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS	43	13	56
RECALL CHEMICAL SAFETY PRECAUTIONS	21	34	55
SELECT SOLVENTS	18	34	52
SELECT PNEUMATIC HANDTOOLS	39	5	44
SELECT SPECIAL TOOLS	36	8	44
SELECT MASKING MATERIALS	18	24	42
SELECT WORKPIECE HOLDING DEVICES	30	2	32
SELECT ABRASIVE PAPER	23	8	31
SELECT PROTECTIVE COATINGS	9	20	29
SELECT SPECIAL FASTENERS	26	2	28
RECALL CHEMICAL COMPOUND MIXING TECHNIQUES	12	16	28
RECALL AIRBORNE FIBER SAFETY PRECAUTIONS	18	8	26
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE MATERIALS	17	9	26
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED STRUCTURES	16	9	25
SELECT COMMON HARDWARE	14	10	24
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS MATERIALS	15	9	24
INTERPRET GAGES OR METERS	13	10	23
SELECT WEIGHT MEASURING SCALES	15	6	21
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF PLASTICS	8	11	19
SELECT COMMON FASTENERS	14	4	18
SELECT SEALANTS	9	5	14
SELECT PRECISION MEASURING INSTRUMENTS	5	8	13
RECOGNIZE TYPES/CHARACTERISTICS OF CORROSION	4	8	12
SELECT WIRE BRUSHES/WHEELS	3	8	11
SELECT CLAMPS	9	1	10
SELECT ROTARY FILES/FLAP WHEELS	7	2	9
SELECT ADHESIVES	7	1	8
SELECT CABLES	1	3	4
SELECT GRINDING WHEELS	2	2	4

Knowledge Requirements - Airframe Only

AIRFRAME KNOWLEDGE	TOTAL TASKS
INTERPRET DRAWINGS AND BLUEPRINTS (G0199)	41
SELECT DRILL BITS	27
SELECT CUTTERS/BLADES	15
SELECT REAMERS	13
SELECT PARTING AGENTS	12
SELECT COMPOSITE TOOLING	9
SELECT DAMAGE REMOVAL TECHNIQUES	9
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF HONEYCOMB CORE MATERIALS	7
RECOGNIZE CAPABILITIES/APPLICATIONS OF HEATING/CURING EQUIPMENT	6
RECOGNIZE STORAGE/HANDLING PRECAUTIONS OF COMPOSITE REPAIR MATERIALS	6
SELECT TUBING	4
SELECT TUBING HARDWARE	4
RECOGNIZE CAPABILITIES/APPLICATIONS OF CONTOUR CUTTING MACHINES	4
RECOGNIZE CAPABILITIES/APPLICATIONS OF METAL FORMING MACHINES	4
RECOGNIZE CAPABILITIES/APPLICATIONS OF TUBE CUTTERS	4
INTERPRET SPECIFICATIONS FOR AIRCRAFT TUBING ASSEMBLIES	4
RECOGNIZE TYPES/USES OF DIMPLING MACHINES	3

Knowledge Requirements - Corrosion Control Only

CORROSION CONTROL KNOWLEDGE	TOTAL TASKS
RECOGNIZE CAPABILITIES/APPLICATIONS OF SUCTION FEED SPRAY GUNS	8
SELECT LUBRICANTS	6
SELECT NEUTRALIZING AGENTS	6
RECOGNIZE CAPABILITIES/APPLICATIONS OF ABRASIVE BLASTERS	5
RECALL TYPES/USES OF STENCILS	5
RECOGNIZE CAPABILITIES/APPLICATIONS OF AEROSOL POWER PACKS	4
RECOGNIZE CAPABILITIES/APPLICATIONS OF STEAM CLEANING EQUIPMENT	4
RECOGNIZE CAPABILITIES/APPLICATIONS OF STENCIL MACHINES	4
SELECT PAINT BRUSHES	3
SELECT PASSIVATION SOLUTIONS	3
RECOGNIZE CAPABILITIES/APPLICATIONS OF AIRCRAFT WASHERS	3
RECOGNIZE CAPABILITIES/APPLICATIONS OF AIRLESS SPRAY GUNS	3
RECOGNIZE CAPABILITIES/APPLICATIONS OF PRESSURE FEED SPRAY GUNS	3
RECOGNIZE CAPABILITIES/APPLICATIONS OF VACUUM BLASTERS	3

TASK ANALYSIS

TASK INVENTORY

AIRFRAME TASKS

TRA	TRA	
Task #	Task Statement	Page
00010	PREPARE FASTENER HOLES	15
00020	REPLACE SOLID SHANK RIVETS	18
00030	REPLACE HI-LOK FASTENERS	21
00040	REPLACE HI-SHEAR RIVETS	24
00050	REPLACE HI-SHEAR THREADED BLIND BOLTS	27
00060	REPLACE HI-TORQUE BOLTS	30
00070	REPLACE JO-BOLT FASTENERS	32
00080	REPLACE PULL-TYPE LOCK BOLTS	35
00090	REPLACE MECHANICAL-LOCK BLIND BOLTS	38
00100	REPLACE TAPER-LOK FASTENERS	41
00110	REPLACE STUMP TYPE LOCK BOLTS	44
00120	REPLACE PULL-THRU BLIND RIVETS	47
00130	REPLACE MILSON FASTENERS	50
00140	REPLACE HEAVY-DUTY DZUS FASTENERS	52
00150	REPLACE LIGHT-DUTY DZUS FASTENERS	54
00160	REPLACE CALFAX FASTENERS	56
00170	REPLACE CAMLOC FASTENERS	58
00180	REPLACE AIRLOCK FASTENERS	60
00190	INSTALL OR REMOVE MACHINE OR STRUCTURAL SCREWS (F0132)	62
00200	REMOVE FROZEN OR STRIPPED SCREWS (G0212)	64
00210	INSTALL OR REMOVE DAVIS NUTS (F0129)	66
00220	INSTALL OR REMOVE NUT PLATES OTHER THAN GANG CHANNEL (F0133)	68
00230	INSTALL OR REMOVE GANG CHANNEL NUT PLATES (F0130)	70
00240	INSTALL OR REMOVE HINGES (F0131)	72
00250	INSTALL OR REMOVE QUICK RELEASE TYPE LATCHES (F0134)	74
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TASK ANALYSIS WORKSHEETS

TASK #: 00010
PREPARE FASTENER HOLES

NOTES:

THIS SKILL, WHICH IS COMMON TO SEVERAL TASKS THROUGHOUT THE AFS, IS ANALYZED SEPARATELY DUE TO IT'S COMPLEXITY

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
PNEUMATIC DRILL
DRILL BITS
CLECO FASTENERS
COUNTERBORE
REAMERS
DRILL PRESS
TURRET PUNCH
STATIONARY DIMPLING MACHINE
PORTABLE DIMPLING MACHINE
HAND DIMPLING DIE HOLDERS
DIMPLING DIES
MICROSTOP COUNTERSINK HOLDER
COUNTERSINK
PORTABLE DRILL FIXTURE
BACKUP MATERIAL
CHEMICAL CONVERSION COATING

REFERENCES:

T.O. 1-1A-1 (GENERAL MANUAL FOR STRUCTURAL REPAIR)
T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5	F0107	6.24	96	95	94	75	3.73	18
427X5	F0108	4.43	41	38	36	26	4.16	15
427X5	F0109	5.00	49	48	47	41	4.19	12
427X5	F0111	6.17	93	94	93	75	3.41	18
427X5	F0144	4.47	43	45	43	28	5.23	15
427X5	G0166	5.48	73	77	76	58	4.44	18
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	G0216	4.12	91	92	91	71	2.55	8

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

CENTER PUNCH FASTENER HOLE LOCATIONS
PILOT DRILL HOLES
SECURE PARTS WITH CLECO FASTENERS (IF MULTIPLE HOLES ARE
REQUIRED)
FINAL DRILL AND REAM FOR SPECIFIC FASTENER APPLICATION
DEBURR/FINISH
COUNTERSINK FASTENER HOLES (IF REQUIRED)
- SELECT COUNTERSINK
- INSTALL COUNTERSINK IN MICROSTOP
- ADJUST MICROSTOP FOR REQUIRED COUNTERSINK DEPTH
- COUNTERSINK FASTENER HOLE
- INSPECT COUNTERSINK FOR DEPTH AND CONDITION
DIMPLE FASTENER HOLES (IF REQUIRED)
- SELECT DIMPLING EQUIPMENT AND MATCHING DIES
- ADJUST EQUIPMENT FOR SPECIFIC DIMPLING OPERATION (IF REQUIRED)
- DIMPLE FASTENER HOLE
- INSPECT DIMPLED HOLE FOR DEPTH AND CONDITION

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE DIMPLING EQUIPMENT
USE COUNTERBORES
USE PNEUMATIC DRILLS
USE STANDARD MEASURING INSTRUMENTS
USE WORKPIECE HOLDING DEVICES
APPLY PROTECTIVE COATINGS
PREPARE FASTENER HOLES
USE REAMING TOOLS
OPERATE DRILL PRESSES
USE DIMPLING MACHINES
OPERATE TURRET PUNCHES

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF PLASTICS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE
MATERIALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS . METAL BONDED
STRUCTURES

RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS
MATERIALS

SELECT COMMON HANDTOOLS

SELECT SPECIAL TOOLS

INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)

SELECT PNEUMATIC HANDTOOLS

SELECT CLAMPS

SELECT WORKPIECE HOLDING DEVICES

SELECT COMMON HARDWARE

PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)

INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)

SELECT REAMERS

SELECT DRILL BITS

SELECT COUNTERSINKS

RECOGNIZE CAPABILITIES/APPLICATIONS OF DRILL PRESSES

RECOGNIZE TYPES/USES OF DIMPLING MACHINES

RECOGNIZE CAPABILITIES/APPLICATIONS OF TURRET PUNCHES

G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0107 COUNTERSINK RIVET HOLES

F0108 DIMPLE RIVET HOLES USING COIN METHOD

F0109 DIMPLE RIVET HOLES USING RADIUS METHOD

F0111 DRILL RIVET HOLES

F0144 PRECISION REAM HOLES

G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES

G0216 SECURE SHEET METAL WITH CLECO FASTENERS

TASK #: 00020

REPLACE SOLID SHANK RIVETS

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
PNEUMATIC DRILL
DRILL BITS
CLECO FASTENERS
PNEUMATIC RIVET GUN
RIVET SETS
RIVET SQUEEZER
MICROSHAVER
DRILL PRESS

REFERENCES:

T.O. 1-1A-1 (GENERAL MANUAL FOR STRUCTURAL REPAIR)
T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5 F0112		6.00	88	89	89	81	3.49	18
427X5 F0165		5.76	77	80	79	61	4.07	18
427X5 G0166		5.48	73	77	76	58	4.44	18
427X5 G0181		5.00	88	89	87	64	2.82	13
427X5 G0192		5.26	67	70	73	72	4.39	18
427X5 G0216		4.12	91	92	91	71	2.55	8

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

FILE A FLAT ON RIVET HEAD (PROTRUDING HEAD RIVETS ONLY)
CENTER PUNCH CENTER OF RIVET HEAD
DRILL INTO RIVET HEAD (TAKE CARE SO AS NOT TO DRILL THROUGH RIVET SHANK)
INSERT PIN PUNCH IN TO RIVET HEAD AND SNAP OFF HEAD
PUNCH OUT RIVET SHANK
INSPECT RIVET HOLE FOR CONDITION AND TOLERANCES
PREPARE FOR NEXT SIZE RIVET (IF FOUND OUT OF LIMITS DURING INSPECTION)

SECURE PARTS WITH CLECO FASTENERS (IF MULTIPLE RIVETS REQUIRE
REMOVAL)
INSERT RIVET INTO HOLE
DRIVE RIVET
INSPECT RIVET MANUFACTURED AND SHOP HEADS
RE-DRIVE RIVET (IF REQUIRED)
INSPECT RIVETS FOR FLUSH INSTALLATION (COUNTERSUNK RIVETS ONLY)
MICROSHAVE RIVET MANUFACTURED HEAD (IF REQUIRED--COUNTERSUNK
RIVETS ONLY)

G0192 INSPECT INSTALLED RIVETS FOR STRUCTURAL DEFORMITIES

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE RIVET SQUEEZER
USE MICROSHAVER
USE PNEUMATIC DRILLS
USE PNEUMATIC RIVET GUNS
USE STANDARD MEASURING INSTRUMENTS
USE WORKPIECE HOLDING DEVICES
PREPARE FASTENER HOLES
OPERATE DRILL PRESSES

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF PLASTICS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE
MATERIALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED
STRUCTURES
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS
MATERIALS
SELECT COMMON HANDTOOLS
SELECT SPECIAL TOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT WORKPIECE HOLDING DEVICES
SELECT COMMON HARDWARE
SELECT COMMON FASTENERS
SELECT SPECIAL FASTENERS
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT DRILL BITS
RECOGNIZE CAPABILITIES/APPLICATIONS OF DRILL PRESSES

RELATED TASKS

F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION
F0165 SMOOTH RIVETS WITH MICROSHAVER
G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES
G0181 CUT RIVETS
G0216 SECURE SHEET METAL WITH CLECO FASTENERS

TASK #: 00030

REPLACE HI-LOK FASTENERS

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
AIR DRIVER REMOVAL ASSEMBLY
SPECIAL RATCHET-WRENCH TYPE POWER TOOL
RATCHET TYPE HAND INSTALLATION TOOL
REAMER
HI-LOK FASTENERS
VACUUM CLEANER

REFERENCES:

T.O. 1-1A-8 (STRUCTURAL HARDWARE)
T.O. 1C-141B-3 (STRUCTURAL REPAIR INSTRUCTIONS)
APPLICABLE AIRCRAFT STRUCTURES T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5	F0112	6.00	88	89	89	81	3.49	18
427X5	F0119	5.35	59	64	66	54	4.27	18
427X5	F0144	4.47	43	45	43	28	5.23	15
427X5	F0150	5.26	58	64	64	52	3.87	18
427X5	G0166	5.48	73	77	76	58	4.44	18
427X5	G0192	5.26	67	70	73	72	4.39	18
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	G0216	4.12	91	92	91	71	2.55	8

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

F0150 REMOVE HI-LOK FASTENERS
- SELECT METHOD FOR SPECIFIC APPLICATION
REMOVE HI-LOK FASTENERS USING HAND REMOVAL METHOD
- SELECT ALLEN WRENCH FOR FASTENER
- INSERT ALLEN WRENCH INTO HEX OF FASTENER PIN AND HOLD FIRMLY TO PREVENT TURNING
- GRASP COLLAR FIRMLY WITH COMMON PLIERS
- HOLD PIN FIRMLY WITH ALLEN WRENCH AND UNSCREW COLLAR FROM PIN

REMOVE HI-LOK FASTENERS USING POWERED REMOVAL METHOD

- SELECT NOSE ASSEMBLY
- INSTALL NOSE ASSEMBLY INTO REMOVAL TOOL
- PRESS TOOL FIRMLY OVER COLLAR
- ROTATE TOOL BY HAND UNTIL TEETH OF NOSE ASSEMBLY SUFFICIENTLY GRIP COLLAR MATERIAL
- DEPRESS TRIGGER TO UNSCREW COLLAR FROM FASTENER PIN
- DRIVE OUT PIN BY LIGHTLY TAPPING WITH HAMMER
- COLLECT AND ACCOUNT FOR ALL COLLARS AND PINS
- INSPECT HOLE FOR CONDITION AND TOLERANCES
- PREPARE HOLE FOR NEXT SIZE FASTENER (IF FOUND OUT OF LIMITS DURING INSPECTION)
- SECURE PARTS WITH CLECO FASTENERS (IF MULTIPLE FASTENERS REQUIRE REMOVAL)

F0119 INSTALL HI-LOK FASTENERS

- DETERMINE METHOD FOR SPECIFIC APPLICATION
- SELECT REPLACEMENT FASTENER AND COLLAR
- INSERT FASTENER PIN INTO HOLE
- SEAT PIN BY LIGHTLY TAPPING WITH HAMMER
- SCREW COLLAR ONTO PIN BY HAND (A MINIMUM OF TWO FULL THREADS CONTACT IS REQUIRED)
- INSTALL HI-LOK FASTENERS USING HAND INSTALLATION METHOD
- PLACE HI-LOK RATCHET AND SOCKET ASSEMBLY OVER COLLAR HEX NUT
- INSERT ALLEN WRENCH THROUGH RATCHET AND SOCKET ASSEMBLY AND INTO HEX RECESS OF FASTENER PIN
- HOLD PIN FIRMLY WITH ALLEN WRENCH AND TIGHTEN COLLAR UNTIL THE COLLAR HEX NUT SHEARS (BREAKS) OFF
- COLLECT AND ACCOUNT FOR ALL COLLARS AND PINS
- INSTALL HI-LOK FASTENERS USING POWERED INSTALLATION METHOD
- SELECT NOSE ASSEMBLY TO ACCOMMODATE FASTENER
- INSERT HEX WRENCH TIP OF POWER TOOL NOSE ASSEMBLY INTO THE HEX RECESS OF FASTENER PIN
- PRESS TOOL FIRMLY AGAINST COLLAR
- DEPRESS TRIGGER AND HOLD UNTIL THE COLLAR HEX NUT SHEARS (BREAKS) OFF
- COLLECT AND ACCOUNT FOR ALL SHEARED HEX NUTS
- INSPECT HI-LOK PIN AND COLLAR FOR SEATING

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE HI-LOK INSTALLATION TOOLING
USE STANDARD MEASURING INSTRUMENTS
USE WORKPIECE HOLDING DEVICES
USE VACUUM CLEANERS
PREPARE FASTENER HOLES
USE REAMING TOOLS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS

RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT COMMON HANDTOOLS
SELECT SPECIAL TOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT WORKPIECE HOLDING DEVICES
SELECT SPECIAL FASTENERS
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT REAMERS
SELECT DRILL BITS
G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION
F0144 PRECISION REAM HOLES
G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES
G0192 INSPECT INSTALLED RIVETS FOR STRUCTURAL DEFORMITIES
G0216 SECURE SHEET METAL WITH CLECO FASTENERS

TASK #: 00040

REPLACE HI-SHEAR RIVETS

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
PNEUMATIC DRILL
PNEUMATIC RIVET GUN
DRILL BITS
CLECO FASTENERS
HOLLOW MILL COLLAR CUTTER
DRILL GUIDE BUSHING
SPECIAL SWAGING HI-SHEAR RIVET SET
HOLLOW BUCKING BAR
PUNCH GUIDE BUSHING
REAMER
VACUUM CLEANER

REFERENCES:

T.O. 1-1A-8 (STRUCTURAL HARDWARE)
T.O. 1B-52G-3 (STRUCTURAL REPAIR INSTRUCTIONS)
APPLICABLE AIRCRAFT STRUCTURES T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5 F0112		6.00	88	89	89	81	3.49	18
427X5 F0120		5.07	56	57	53	35	4.42	18
427X5 F0144		4.47	43	45	43	28	5.23	15
427X5 F0151		4.95	55	59	59	45	3.87	17
427X5 G0166		5.48	73	77	76	58	4.44	18
427X5 G0192		5.26	67	70	73	72	4.39	18
427X5 G0199		6.41	52	57	61	69	6.00	18
427X5 G0216		4.12	91	92	91	71	2.55	8

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

- F0151 REMOVE HI-SHEAR RIVETS
- DETERMINE METHOD FOR SPECIFIC APPLICATION
- REMOVE HI-SHEAR RIVETS USING PUNCHOUT METHOD
- SELECT PUNCH AND GUIDE BUSHING
 - INSTALL PUNCH IN RIVET GUN
 - PRESS PUNCH AND GUIDE FIRMLY BUSHING OVER HI-SHEAR COLLAR AND ONTO END OF FASTENER PIN
 - BACK UP MATERIAL FIRMLY WITH HOLLOW BUCKING BAR
 - DEPRESS TRIGGER WHILE APPLYING A SLIGHT PRYING MOTION TO TAP OUT FASTENER
 - COLLECT AND ACCOUNT FOR ALL COLLARS AND PINS
- REMOVE HI-SHEAR RIVETS USING COLLAR CUTTING METHOD
- POSITION HOLLOW MILL COLLAR CUTTER OVER HI-SHEAR COLLAR
 - CUT AWAY ENOUGH OF THE COLLAR TO PERMIT THE FASTENER PIN TO BE DRIVEN OUT
 - DRIVE OUT FASTENER PIN BY TAPPING SHARPLY WITH HAMMER
 - COLLECT AND ACCOUNT FOR ALL COLLARS AND PINS
- REMOVE HI-SHEAR RIVETS USING DRILL OUT METHOD
- SELECT DRILL BIT AND GUIDE BUSHING
 - INSTALL DRILL BIT INTO DRILL MOTOR CHUCK
 - PLACE DRILL GUIDE BUSHING OVER HI-SHEAR COLLAR
 - INSERT DRILL THROUGH GUIDE BUSHING AND ONTO END OF THE FASTENER PIN
 - DEPRESS TRIGGER AND DRILL AWAY ONLY ENOUGH OF THE FASTENER PIN TO RELEASE GRIP OF COLLAR
 - DRIVE OUT FASTENER PIN BY TAPPING SHARPLY WITH HAMMER
 - COLLECT AND ACCOUNT FOR ALL COLLARS AND PINS
- REMOVE HI-SHEAR RIVETS USING COLLAR SPLITTING METHOD
- SELECT HAND COLD CHISEL (BLADE WIDTH 1/8 INCH)
 - PLACE CHISEL ON COLLAR AT A RIGHT ANGLE
 - STRIKE CHISEL SHARPLY WITH HAMMER TO SPLIT COLLAR ON ONE SIDE (REPEAT OPERATION ON OPPOSITE SIDE OF COLLAR)
 - PRY COLLAR FROM FASTENER PIN
 - DRIVE OUT FASTENER PIN BY TAPPING SHARPLY WITH HAMMER
 - COLLECT AND ACCOUNT FOR ALL COLLARS AND PINS
- INSPECT HOLE FOR CONDITION AND TOLERANCES
- PREPARE HOLE FOR NEXT SIZE FASTENER (IF FOUND OUT OF LIMITS DURING INSPECTION)
- SECURE PARTS WITH CLECO FASTENERS (IF MULTIPLE RIVETS REQUIRE REMOVAL)
- F0120 INSTALL HI-SHEAR RIVETS
- SELECT REPLACEMENT FASTENER AND COLLAR TO ACCOMMODATE MATERIAL
 - SELECT HI-SHEAR RIVET SET
 - INSTALL HI-SHEAR SET INTO RIVET GUN
 - INSERT FASTENER PIN INTO HOLE AND POSITION STANDARD BUCKING BAR OVER FASTENER HEAD
 - SLIP COLLAR OVER FASTENER PIN
 - PRESS RIVET SET FIRMLY OVER COLLAR
 - DEPRESS TRIGGER TO SWAGE COLLAR INTO PLACE (COLLAR SWAGING SHOULD BE DONE WITH ONLY A FEW SHORT HEAVY BLOWS)
- INSPECT HI-SHEAR PIN AND COLLAR FOR SEATING

SKILLS

- USE PERSONAL PROTECTIVE EQUIPMENT
- USE COMMON HANDTOOLS
- USE HI-SHEAR REMOVAL/INSTALLATION TOOLING
- USE PNEUMATIC DRILLS
- USE PNEUMATIC RIVET GUNS
- USE STANDARD MEASURING INSTRUMENTS
- USE WORKPIECE HOLDING DEVICES
- USE VACUUM CLEANERS
- PREPARE FASTENER HOLES
- USE REAMING TOOLS

KNOWLEDGE

- INTERPRET TECHNICAL DATA
- LOCATE TECHNICAL DATA
- RECALL SHOP SAFETY PRECAUTIONS
- RECALL FLIGHTLINE SAFETY PRECAUTIONS
- RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
- RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
- SELECT COMMON HANDTOOLS
- SELECT PNEUMATIC HANDTOOLS
- SELECT WORKPIECE HOLDING DEVICES
- SELECT SPECIAL FASTENERS
- INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
- SELECT REAMERS
- SELECT DRILL BITS

G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

- F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION
- F0144 PRECISION REAM HOLES
- G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES
- G0192 INSPECT INSTALLED RIVETS FOR STRUCTURAL DEFORMITIES
- G0216 SECURE SHEET METAL WITH CLECO FASTENERS

TASK #: 00050

REPLACE HI-SHEAR THREADED BLIND BOLTS

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
PNEUMATIC DRILL
DRILL BITS
CLECO FASTENERS
BP-7000 AIR/HYDRAULIC POWER UNIT ASSEMBLY
BG-2500 GUN ASSEMBLY
ANVIL/CHUCK MANDREL
REAMER
VACUUM CLEANER

REFERENCES:

T.O. 1B-52G-3 (STRUCTURAL REPAIR INSTRUCTIONS)
APPLICABLE AIRCRAFT STRUCTURES T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5.	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	F0112	6.00	88	89	89	81	3.49	18
427X5	F0121	4.09	27	27	26	22	4.85	7
427X5	F0144	4.47	43	45	43	28	5.23	15
427X5	F0152	3.57	25	24	23	16	4.45	7
427X5	G0166	5.48	73	77	76	58	4.44	18
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	G0216	4.12	91	92	91	71	2.55	8

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

F0152 REMOVE HI-SHEAR THREADED BLIND BOLTS
- SELECT DRILL BIT AND GUIDE BUSHING
- INSTALL DRILL BIT INTO DRILL MOTOR CHUCK
- DRILL INTO RIVET HEAD (TAKE CARE SO AS NOT TO DRILL INTO/THROUGH FASTENER SLEEVE)
- SELECT PIN PUNCH
- INSERT PIN PUNCH INTO FASTENER HEAD AND SNAP OFF HEAD
- PUNCH OUT REMAINING FASTENER SLEEVE
- COLLECT AND ACCOUNT FOR ALL FASTENER SLEEVES AND HEADS

INSPECT RIVET HOLES FOR CONDITION AND TOLERANCES
PREPARE HOLE FOR NEXT SIZE FASTENER (IF FOUND OUT OF LIMITS
DURING INSPECTION)
SECURE PARTS WITH CLECO FASTENERS (IF MULTIPLE BLIND BOLTS
REQUIRE REMOVAL)

- F0121 INSTALL HI-SHEAR THREADED BLIND BOLTS
- SELECT REPLACEMENT FASTENER, SLEEVE, AND CORE BOLT
 - SELECT ANVIL, CHUCK. AND MANDREL FOR REPLACEMENT FASTENER
 - SET UP AND ADJUST AIR/HYDRAULIC POWER UNIT ASSEMBLY
 - CONNECT BG2500 GUN ASSEMBLY
 - INSTALL ANVIL, CHUCK, AND MANDREL INTO GUN ASSEMBLY AND ADJUST
 - SLIDE FASTENER SLEEVE OVER MANDREL AND THREAD NUT INTO PLACE
 - INSERT SLEEVE ASSEMBLY INTO FASTENER HOLE
 - DEPRESS PULLING TRIGGER TO SWAGE SLEEVE INTO HOLE
 - DEPRESS REVERSE TRIGGER TO UNTHREAD MANDREL FROM SLEEVE ASSEMBLY
 - INSTALL CORE BOLT
- F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE BP-7000 AIR/HYDRAULIC POWER UNIT ASSEMBLY
USE BG-2500 GUN ASSEMBLY
USE ANVIL/CHUCK MANDREL
USE PNEUMATIC DRILLS
USE STANDARD MEASURING INSTRUMENTS
USE WORKPIECE HOLDING DEVICES
USE VACUUM CLEANERS
PREPARE FASTENER HOLES
USE REAMING TOOLS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT COMMON HANDTOOLS
SELECT SPECIAL TOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT WORKPIECE HOLDING DEVICES
SELECT SPECIAL FASTENERS
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT REAMERS
SELECT DRILL BITS

- G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0144 PRECISION REAM HOLES
G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES
G0216 SECURE SHEET METAL WITH CLECO FASTENERS

TASK #: 00060
REPLACE HI-TORQUE BOLTS

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
TORQUE LIMITING/MEASURING DEVICE
VACUUM CLEANER

REFERENCES:

T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	F0112	6.00	88	89	89	81	3.49	18
427X5	F0114	4.29	28	29	29	31	3.94	7
427X5	F0122	3.29	25	25	23	23	4.38	7
427X5	F0144	4.47	43	45	43	28	5.23	15
427X5	F0153	2.93	25	28	28	23	4.20	2
427X5	G0166	5.48	73	77	76	58	4.44	18
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	G0216	4.12	91	92	91	71	2.55	8

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

F0153 REMOVE HI-TORQUE BOLTS
- SELECT WRENCH, SOCKET, RATCHET, AND EXTENSION BAR
- HOLD HEAD OF BOLT FROM TURNING WITH WRENCH
- PLACE SOCKET OVER NUT
- BREAK LOOSE AND REMOVE NUT USING STEADY EVEN PRESSURE ON RATCHET HANDLE
- PUSH BOLT OUT OF HOLE
INSPECT HOLE FOR CONDITION AND TOLERANCES
PREPARE HOLE FOR NEXT SIZE FASTENER (IF FOUND OUT OF LIMITS DURING INSPECTION)

F0122 INSTALL HI-TORQUE BOLTS
- SELECT REPLACEMENT BOLT AND NUT
- INSERT BOLT INTO HOLE
- SCREW NUT ONTO BOLT
- SELECT TORQUE MEASURING DEVICE

- HOLD HEAD OF BOLT FROM TURNING WITH WRENCH
- TORQUE NUT TO VALUE SPECIFIED BY T.O.
- INSPECT BOLT AND NUT FOR SEATING

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
 USE COMMON HANDTOOLS
 USE TORQUE LIMITING/MEASURING DEVICE
 USE STANDARD MEASURING INSTRUMENTS
 USE VACUUM CLEANERS
 PREPARE FASTENER HOLES
 USE REAMING TOOLS

KNOWLEDGE

INTERPRET TECHNICAL DATA
 LOCATE TECHNICAL DATA
 RECALL SHOP SAFETY PRECAUTIONS
 RECALL FLIGHTLINE SAFETY PRECAUTIONS
 RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
 RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
 SELECT COMMON HANDTOOLS
 SELECT SPECIAL TOOLS
 SELECT WORKPIECE HOLDING DEVICES
 SELECT COMMON HARDWARE
 SELECT COMMON FASTENERS
 SELECT SPECIAL FASTENERS
 INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
 SELECT REAMERS
 SELECT DRILL BITS

G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION
 F0114 INSTALL AND TIGHTEN AIRCRAFT NUTS ACCORDING TO STANDARD TORQUE
 CHARTS
 F0144 PRECISION REAM HOLES
 G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES
 G0216 SECURE SHEET METAL WITH CLECO FASTENERS

TASK #: 00070
 REPLACE JO-BOLT FASTENERS

EQUIPMENT:

COMMON HANDTOOLS
 PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
 PNEUMATIC DRILL
 DRILL BITS
 CLECO FASTENERS
 PNEUMATIC JO-BOLT GUN
 RATCHET HAND INSTALLATION TOOL
 SPECIAL WRENCH ADAPTER
 GUIDE BUSHING
 REAMER
 VACUUM CLEANER

REFERENCES:

T.O. 1-1A-8 (STRUCTURAL HARDWARE)
 APPLICABLE AIRCRAFT STRUCTURES T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5	F0112	6.00	88	89	89	81	3.49	18
427X5	F0123	5.95	71	74	74	60	3.90	18
427X5	F0144	4.47	43	45	43	28	5.23	15
427X5	F0154	6.22	70	75	76	58	4.58	18
427X5	G0166	5.48	73	77	76	58	4.44	18
427X5	G0192	5.26	67	70	73	72	4.39	18
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	G0216	4.12	91	92	91	71	2.55	8

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

F0154 REMOVE JO-BOLT FASTENERS
 - SELECT DRILL BIT AND GUIDE BUSHING
 - INSTALL DRILL BIT INTO DRILL MOTOR CHUCK
 - DRILL INTO FASTENER HEAD (IF FASTENER IS LOOSE, USE SPECIAL DRILL BUSHING TO PREVENT THE FASTENER FROM SPINNING. TAKE CARE SO AS NOT TO DRILL THROUGH SHANK)
 - SELECT PIN PUNCH

- INSERT PIN PUNCH IN TO FASTENER HEAD AND PUNCH OUT SHANK
INSPECT HOLE FOR CONDITION AND TOLERANCES
PREPARE HOLE FOR NEXT SIZE FASTENER (IF FOUND OUT OF LIMITS
DURING INSPECTION)
SECURE PARTS WITH CLECO FASTENERS (IF MULTIPLE FASTENERS REQUIRE
REMOVAL)

F0123

INSTALL JO-BOLT FASTENERS
- DETERMINE METHOD FOR SPECIFIC APPLICATION
- SELECT REPLACEMENT FASTENER
- INSERT FASTENER INTO HOLE
INSTALL JO-BOLT FASTENERS USING HAND INSTALLATION METHOD
- SELECT NOSE AND WRENCH ADAPTER TO ACCOMMODATE FASTENER
- INSTALL NOSE AND WRENCH ADAPTER INTO HAND JO-BOLT TOOL
- PLACE NOSE AND WRENCH ADAPTER OVER FASTENER
- ROTATE TOOL BY HAND UNTIL NOSE ADAPTER ENGAGES FASTENER HEAD
- HOLD HANDLE OF THE TOOL STATIONARY AND TURN RATCHET HANDLE UNTIL
THE FASTENER STEM SHEARS (BREAKS) OFF
- COLLECT AND ACCOUNT FOR ALL SHEARED FASTENER STEMS
INSTALL JO-BOLT FASTENERS USING POWERED INSTALLATION METHOD
- SELECT NOSE AND WRENCH ADAPTER
- INSTALL NOSE AND WRENCH ADAPTER INTO PNEUMATIC JO-BOLT GUN
- PLACE NOSE AND WRENCH ADAPTER OVER FASTENER
- ROTATE TOOL BY HAND UNTIL NOSE ADAPTER ENGAGES FASTENER HEAD
- PRESS TOOL FIRMLY AGAINST FASTENER HEAD
- DEPRESS TRIGGER AND HOLD UNTIL THE FASTENER STEM SHEARS (BREAKS)
OFF
- COLLECT AND ACCOUNT FOR ALL SHEARED FASTENER STEMS
INSPECT JO-BOLT FOR SEATING AND LOOSENESS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE JO-BOLT INSTALLATION TOOLING
USE PNEUMATIC DRILLS
USE PNEUMATIC JO-BOLT INSTALLATION GUN
USE STANDARD MEASURING INSTRUMENTS
USE WORKPIECE HOLDING DEVICES
USE VACUUM CLEANERS
PREPARE FASTENER HOLES
USE REAMING TOOLS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT SPECIAL TOOLS
SELECT COMMON HANDTOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT WORKPIECE HOLDING DEVICES
SELECT SPECIAL FASTENERS

INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT REAMERS
SELECT DRILL BITS
G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION
F0144 PRECISION REAM HOLES
G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES
G0192 INSPECT INSTALLED RIVETS FOR STRUCTURAL DEFORMITIES
G0216 SECURE SHEET METAL WITH CLECO FASTENERS

TASK #: 00080

REPLACE PULL-TYPE LOCK BOLTS

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
HOLLOW MILL COLLAR CUTTER
PNEUMATIC DRILL
DRILL GUIDE BUSHING
SPECIAL SWAGING SET
HOLLOW BUCKING BAR
PUNCH GUIDE BUSHING
PNEUMATICALLY POWERED LOCK BOLT INSTALLATION GUN
NOSE SET
REAMER
VACUUM CLEANER

REFERENCES:

T.O. 1-1A-8 (STRUCTURAL HARDWARE)
APPLICABLE AIRCRAFT STRUCTURES T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5 F0112		6.00	88	89	89	81	3.49	18
427X5 F0137		3.91	31	31	29	26	3.84	15
427X5 F0144		4.47	43	45	43	28	5.23	15
427X5 F0155		3.62	14	16	16	13	4.11	7
427X5 F0159		3.83	28	28	27	25	3.92	7
427X5 G0166		5.48	73	77	76	58	4.44	18
427X5 G0192		5.26	67	70	73	72	4.39	18
427X5 G0199		6.41	52	57	61	69	6.00	18
427X5 G0216		4.12	91	92	91	71	2.55	8

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

F0159 REMOVE PULL-TYPE LOCK BOLTS
- SELECT METHOD FOR SPECIFIC APPLICATION
F0155 REMOVE LOCK BOLTS USING SLEEVE CUTTERS
- POSITION SLEEVE CUTTER OVER LOCK BOLT COLLAR

- CUT AWAY ENOUGH OF THE COLLAR TO PERMIT THE FASTENER PIN TO BE DRIVEN OUT
- DRIVE OUT FASTENER PIN BY TAPPING SHARPLY WITH HAMMER
- COLLECT AND ACCOUNT FOR ALL COLLARS AND PINS
- REMOVE LOCK BOLTS USING COLLAR SPLITTING METHOD
- SELECT HAND COLD CHISEL
- PLACE CHISEL ON COLLAR AT A RIGHT ANGLE
- STRIKE CHISEL SHARPLY WITH HAMMER TO SPLIT COLLAR ON ONE SIDE
(REPEAT OPERATION ON OPPOSITE SIDE OF COLLAR)
- PRY COLLAR FROM FASTENER PIN
- DRIVE OUT FASTENER PIN BY TAPPING WITH HAMMER
- COLLECT AND ACCOUNT FOR ALL COLLARS AND PINS
- INSPECT HOLE FOR CONDITION AND TOLERANCES
- PREPARE HOLE FOR NEXT SIZE FASTENER (IF FOUND OUT OF LIMITS DURING INSPECTION)
- SECURE PARTS WITH CLECO FASTENERS (IF MULTIPLE HOLES ARE REQUIRED)

F0137

- INSTALL PULL-TYPE LOCK BOLTS
- SELECT REPLACEMENT FASTENER AND COLLAR
- SELECT PULLING SET
- INSTALL PULLING SET INTO LOCK BOLT PULL GUN
- INSERT FASTENER PIN INTO HOLE AND TAP LIGHTLY ON FASTENER HEAD TO SEAT IN HOLE
- SLIP COLLAR OVER FASTENER PIN
- PRESS SET FIRMLY OVER COLLAR
- DEPRESS TRIGGER TO SWAGE COLLAR INTO PLACE AND SHEAR (BREAK) STEM
- COLLECT AND ACCOUNT FOR ALL SHEARED STEMS
- INSPECT LOCK BOLT PIN AND COLLAR FOR SEATING

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
 USE COMMON HANDTOOLS
 USE LOCK BOLT REMOVAL/INSTALLATION TOOLING
 USE PNEUMATIC DRILLS
 USE PNEUMATIC LOCK BOLT INSTALLATION GUN
 USE STANDARD MEASURING INSTRUMENTS
 USE WORKPIECE HOLDING DEVICES
 USE VACUUM CLEANERS
 PREPARE FASTENER HOLES
 USE REAMING TOOLS

KNOWLEDGE

INTERPRET TECHNICAL DATA
 LOCATE TECHNICAL DATA
 RECALL SHOP SAFETY PRECAUTIONS
 RECALL FLIGHTLINE SAFETY PRECAUTIONS
 RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
 RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
 SELECT SPECIAL TOOLS
 SELECT COMMON HANDTOOLS
 SELECT PNEUMATIC HANDTOOLS
 SELECT WORKPIECE HOLDING DEVICES

SELECT SPECIAL FASTENERS
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT REAMERS
SELECT DRILL BITS

G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION
F0144 PRECISION REAM HOLES
G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES
G0192 INSPECT INSTALLED RIVETS FOR STRUCTURAL DEFORMITIES
G0216 SECURE SHEET METAL WITH CLECO FASTENERS

TASK #: 00090

REPLACE MECHANICAL-LOCK BLIND BOLTS

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
PNEUMATIC DRILL
DRILL BITS
CLECO FASTENERS
PNEUMATICALLY POWERED BLIND BOLT PULL GUN
NOSE SET
REAMER
VACUUM CLEANER

REFERENCES:

T.O. 1-1A-1 (GENERAL MANUAL FOR STRUCTURAL REPAIR)
T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5	F0112	6.00	88	89	89	81	3.49	18
427X5	F0126	4.57	40	39	40	35	3.82	15
427X5	F0138	4.71	73	73	75	61	3.51	17
427X5	F0139	5.59	80	81	83	71	3.52	18
427X5	F0144	4.47	43	45	43	28	5.23	15
427X5	F0156	4.17	37	37	37	31	4.27	15
427X5	F0160	4.81	67	69	71	61	3.71	17
427X5	F0161	5.29	73	75	77	67	3.77	18
427X5	G0166	5.48	73	77	76	58	4.44	18
427X5	G0192	5.26	67	70	73	72	4.39	18
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	G0216	4.12	91	92	91	71	2.55	8

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

F0156 REMOVE MECHANICAL-LOCK BLIND BOLTS
- SELECT DRILL BIT
- INSTALL DRILL BIT INTO DRILL MOTOR CHUCK
- DRILL INTO FASTENER PIN JUST BELOW LOCKING COLLAR
- SELECT PIN PUNCH

- INSERT PIN PUNCH INTO FASTENER HEAD, PRY OUT COLLAR, AND PUNCH OUT FASTENER PIN
- COLLECT AND ACCOUNT FOR ALL COLLARS AND PINS
- SELECT DRILL BIT
- INSTALL DRILL BIT INTO DRILL MOTOR CHUCK
- DRILL INTO FASTENER JUST BELOW HEAD
- SELECT PIN PUNCH
- INSERT PIN PUNCH INTO FASTENER, PRY OUT HEAD, AND PUNCH OUT FASTENER SLEEVE
- COLLECT AND ACCOUNT FOR ALL HEADS AND SLEEVES
- INSPECT FASTENER HOLE FOR CONDITION AND TOLERANCES
- PREPARE HOLE FOR NEXT SIZE FASTENER (IF FOUND OUT OF LIMITS DURING INSPECTION)
- SECURE PARTS WITH CLECO FASTENERS (IF MULTIPLE FASTENERS REQUIRE REMOVAL)

F0126

- INSTALL MECHANICAL-LOCK BLIND BOLTS
- SELECT REPLACEMENT FASTENER
- SELECT PULLING GUN AND NOSE ASSEMBLY
- INSTALL NOSE ASSEMBLY INTO PULL GUN
- ADJUST NOSE ASSEMBLY AND/OR SHIFT PRESSURE FOR FASTENER
- INSERT FASTENER INTO HOLE
- PRESS NOSE ASSEMBLY FIRMLY OVER FASTENER STEM
- DEPRESS TRIGGER TO SEAT COLLAR INTO PLACE AND SHEAR (BREAK) STEM
- COLLECT AND ACCOUNT FOR ALL SHEARED STEMS
- INSPECT FASTENER FOR SEATING

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
 USE COMMON HANDTOOLS
 USE MECHANICAL-LOCK BLIND BOLT INSTALLATION TOOLING
 USE PNEUMATIC DRILLS
 USE STANDARD MEASURING INSTRUMENTS
 USE WORKPIECE HOLDING DEVICES
 USE VACUUM CLEANERS
 PREPARE FASTENER HOLES
 USE REAMING TOOLS

KNOWLEDGE

INTERPRET TECHNICAL DATA
 LOCATE TECHNICAL DATA
 RECALL SHOP SAFETY PRECAUTIONS
 RECALL FLIGHTLINE SAFETY PRECAUTIONS
 RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
 RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
 RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE MATERIALS
 RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED STRUCTURES
 SELECT SPECIAL TOOLS
 SELECT COMMON HANDTOOLS
 SELECT PNEUMATIC HANDTOOLS
 SELECT WORKPIECE HOLDING DEVICES

SELECT SPECIAL FASTENERS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT REAMERS
SELECT DRILL BITS
RECOGNIZE STORAGE/HANDLING PRECAUTIONS OF COMPOSITE REPAIR
MATERIALS
SELECT COMPOSITE TOOLING
G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION
F0138 INSTALL SELF-PLUGGING (FRICTION LOCK) BLIND RIVETS
F0139 INSTALL SELF-PLUGGING (MECHANICAL LOCK) BLIND RIVETS
F0144 PRECISION REAM HOLES
F0160 REMOVE SELF-PLUGGING (FRICTION LOCK) BLIND RIVETS
F0161 REMOVE SELF-PLUGGING (MECHANICAL LOCK) BLIND RIVETS
G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES
G0192 INSPECT INSTALLED RIVETS FOR STRUCTURAL DEFORMITIES
G0216 SECURE SHEET METAL WITH CLECO FASTENERS

TASK #: 00100
REPLACE TAPER-LOK FASTENERS

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
PNEUMATIC DRILL
DRILL BITS
TAPER-LOK INSTALLATION/REMOVAL KIT
TAPER-LOK REAMERS
PORTABLE DRILL FIXTURE
TORQUE LIMITING/MEASURING DEVICE
PRUSSIAN BLUE DYE
VACUUM CLEANER

REFERENCES:

T.O. 1-1A-1 (GENERAL MANUAL FOR STRUCTURAL REPAIR)
T.O. 1-1A-8 (STRUCTURAL HARDWARE)
APPLICABLE AIRCRAFT STRUCTURES T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5 F0112		6.00	88	89	89	81	3.49	18
427X5 F0142		4.50	28	31	31	24	5.63	15
427X5 F0144		4.47	43	45	43	28	5.23	15
427X5 F0164		3.97	17	22	22	19	5.04	7
427X5 G0166		5.48	73	77	76	58	4.44	13
427X5 G0192		5.26	67	70	73	72	4.39	18
427X5 G0199		6.41	52	57	61	69	6.00	18
427X5 G0216		4.12	91	92	91	71	2.55	8

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

F0164 REMOVE TAPER-LOK FASTENERS USING KNOCKOUT TOOL METHOD
- SELECT WRENCH, SOCKET, RATCHET, AND EXTENSION BAR
- PLACE SOCKET OVER TAPER-LOK NUT
- BREAK LOOSE AND REMOVE NUT USING STEADY EVEN PRESSURE ON RATCHET HANDLE
- SCREW KNOCKOUT TOOL ONTO THREADED END OF FASTENER
- HOLD BACKUP TOOL FIRMLY OVER FASTENER HEAD

- STRIKE KNOCKOUT TOOL WITH HAMMER UNTIL FASTENER IS LOOSE
- REMOVE KNOCKOUT TOOL AND FASTENER
- INSPECT HOLE VISUALLY FOR CONDITION AND TOLERANCES
- COAT TOLERANCE PIN OR FASTENER WITH PRUSSIAN BLUE DYE
- INSERT TOLERANCE PIN OR FASTENER INTO HOLE
- CHECK TOLERANCE PIN OR FASTENER PROTRUDING HEAD HEIGHT USING GO/NO-GO GAGE
- REMOVE TOLERANCE PIN OR FASTENER FROM HOLE AND INSPECT BEARING MARKS IN DYE TO INSURE THAT HOLE IS SYMMETRICAL
- PREPARE HOLE FOR NEXT SIZE FASTENER (IF FOUND OUT OF LIMITS DURING INSPECTION)

F0142 INSTALL TAPER-LOK FASTENERS

- SELECT REPLACEMENT FASTENER BY GROUP AND SERIES
- INSERT FASTENER INTO HOLE
- SCREW NUT ONTO THREADED END OF FASTENER
- SELECT TORQUE MEASURING DEVICE
- TORQUE NUT TO VALUE SPECIFIED BY T.O.

INS T TAPER-LOK FOR SEATING

SKI1

USE PERSONAL PROTECTIVE EQUIPMENT
 USE COMMON HANDTOOLS
 USE TAPER-LOK REMOVAL/INSTALLATION TOOLING
 USE STANDARD MEASURING INSTRUMENTS
 USE GO/NO-GO GAGE
 USE WORKPIECE HOLDING DEVICES
 USE VACUUM CLEANERS
 PREPARE FASTENER HOLES
 USE REAMING TOOLS

KNOWLEDGE

INTERPRET TECHNICAL DATA
 LOCATE TECHNICAL DATA
 RECALL SHOP SAFETY PRECAUTIONS
 RECALL FLIGHTLINE SAFETY PRECAUTIONS
 RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
 RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
 SELECT SPECIAL TOOLS
 SELECT COMMON HANDTOOLS
 SELECT PNEUMATIC HANDTOOLS
 SELECT SPECIAL FASTENERS
 PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
 INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
 SELECT REAMERS
 SELECT DRILL BITS

G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION
F0144 PRECISION REAM HOLES
G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES
G0192 INSPECT INSTALLED RIVETS FOR STRUCTURAL DEFORMITIES
G0216 SECURE SHEET METAL WITH CLECO FASTENERS

TASK #: 00110
REPLACE STUMP TYPE LOCK BOLTS

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
PNEUMATIC RIVET GUN
CLECO FASTENERS
DRILL BITS
HOLLOW MILL COLLAR CUTTER
SPECIAL SWAGING SET
HOLLOW BUCKING BAR
PUNCH GUIDE BUSHING
PNEUMATICALLY POWERED LOCK BOLT INSTALLATION GUN
NOSE SET
REAMER
VACUUM CLEANER

REFERENCES:

T.O. 1-1A-8 (STRUCTURAL HARDWARE)
APPLICABLE AIRCRAFT STRUCTURES T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5	F0112	6.00	88	89	89	81	3.49	18
427X5	F0141	3.57	18	18	17	18	4.41	7
427X5	F0144	4.47	43	45	43	28	5.23	15
427X5	F0155	3.62	14	16	16	13	4.11	7
427X5	G0166	5.48	73	77	76	58	4.44	18
427X5	G0192	5.26	67	70	73	72	4.39	18
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	G0216	4.12	91	92	91	71	2.55	8

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

REMOVE STUMP TYPE LOCK BOLTS
- SELECT METHOD FOR SPECIFIC APPLICATION
F0155 REMOVE LOCK BOLTS USING SLEEVE CUTTERS
- POSITION SLEEVE CUTTER OVER LOCK BOLT COLLAR

- CUT AWAY ENOUGH OF THE COLLAR TO PERMIT THE FASTENER PIN TO BE DRIVEN OUT
- DRIVE OUT FASTENER PIN BY TAPPING SHARPLY WITH HAMMER
- COLLECT AND ACCOUNT FOR ALL COLLARS AND PINS
- REMOVE LOCK BOLTS USING COLLAR SPLITTING METHOD
- SELECT HAND COLD CHISEL
- PLACE CHISEL ON COLLAR AT A RIGHT ANGLE
- STRIKE CHISEL SHARPLY WITH HAMMER TO SPLIT COLLAR ON ONE SIDE
(REPEAT OPERATION ON OPPOSITE SIDE OF COLLAR)
- PRY COLLAR FROM FASTENER PIN
- DRIVE OUT FASTENER PIN BY TAPPING WITH HAMMER
- COLLECT AND ACCOUNT FOR ALL COLLARS AND PINS
- INSPECT HOLE FOR CONDITION AND TOLERANCES
- PREPARE HOLE FOR NEXT SIZE FASTENER (IF FOUND OUT OF LIMITS DURING INSPECTION)
- SECURE PARTS WITH CLECO FASTENERS (IF MULTIPLE HOLES ARE REQUIRED)

- F0141
- INSTALL STUMP TYPE LOCK BOLTS
 - SELECT REPLACEMENT FASTENER AND COLLAR
 - SELECT NOSE SET
 - INSTALL NOSE SET INTO INSTALLATION GUN
 - INSERT FASTENER PIN INTO HOLE AND POSITION STANDARD BUCKING BAR OVER FASTENER HEAD
 - SLIP COLLAR OVER FASTENER PIN
 - PRESS RIVET SET FIRMLY OVER COLLAR
 - DEPRESS TRIGGER TO SWAGE COLLAR INTO PLACE (COLLAR SWAGING SHOULD BE DONE WITH ONLY A FEW SHORT HEAVY BLOWS)
 - INSPECT HI-SHEAR PIN AND COLLAR FOR SEATING

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
 USE COMMON HANDTOOLS
 USE LOCK BOLT REMOVAL/INSTALLATION TOOLING
 USE PNEUMATIC RIVET GUNS
 USE PNEUMATIC LOCK BOLT INSTALLATION GUN
 USE STANDARD MEASURING INSTRUMENTS
 USE WORKPIECE HOLDING DEVICES
 USE VACUUM CLEANERS
 PREPARE FASTENER HOLES
 USE REAMING TOOLS

KNOWLEDGE

INTERPRET TECHNICAL DATA
 LOCATE TECHNICAL DATA
 RECALL SHOP SAFETY PRECAUTIONS
 RECALL FLIGHTLINE SAFETY PRECAUTIONS
 RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
 RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
 SELECT SPECIAL TOOLS
 SELECT COMMON HANDTOOLS
 SELECT PNEUMATIC HANDTOOLS
 SELECT WORKPIECE HOLDING DEVICES
 SELECT SPECIAL FASTENERS

INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)

SELECT REAMERS

SELECT DRILL BITS

G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION

F0144 PRECISION REAM HOLES

G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES

G0192 INSPECT INSTALLED RIVETS FOR STRUCTURAL DEFORMITIES

G0216 SECURE SHEET METAL WITH CLECO FASTENERS

TASK #: 00120

REPLACE PULL-THRU BLIND RIVETS

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
PNEUMATIC DRILL
DRILL BITS
CLECO FASTENERS
HAND OPERATED PULL GUN
PNEUMATICALLY OPERATED PULL GUN
PULLING HEAD
VACUUM CLEANER

REFERENCES:

T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5	F0110	6.38	96	96	94	75	3.52	18
427X5	F0112	6.00	88	89	89	81	3.49	18
427X5	F0136	4.53	92	92	91	70	3.24	17
427X5	F0158	4.72	88	89	88	67	3.27	17
427X5	G0166	5.48	73	77	76	58	4.44	18
427X5	G0192	5.26	67	70	73	72	4.39	18
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	G0216	4.12	91	92	91	71	2.55	8

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

F0158 REMOVE PULL-THRU BLIND RIVETS
- SELECT DRILL BIT
- INSTALL DRILL BIT INTO DRILL MOTOR CHUCK
- DRILL INTO FASTENER JUST BELOW HEAD
- SELECT PIN PUNCH
- INSERT PIN PUNCH INTO FASTENER, PRY OUT HEAD, AND PUNCH OUT
FASTENER SLEEVE
- COLLECT AND ACCOUNT FOR ALL HEADS AND SLEEVES
INSPECT FASTENER HOLE FOR CONDITION AND TOLERANCES

PREPARE HOLE FOR NEXT SIZE FASTENER (IF FOUND OUT OF LIMITS DURING INSPECTION)

SECURE PARTS WITH CLECO FASTENERS (IF MULTIPLE FASTENERS REQUIRE REMOVAL)

F0136 INSTALL PULL-THRU BLIND RIVETS

- SELECT METHOD FOR SPECIFIC APPLICATION
- SELECT REPLACEMENT FASTENER
- SELECT PULLING GUN AND PULLING HEAD
- INSTALL PULLING HEAD INTO PULL GUN
- INSERT FASTENER STEM INTO THE PULLING HEAD
- INSERT FASTENER INTO HOLE

INSTALL PULL-THRU BLIND RIVETS USING HAND INSTALLATION METHOD

- HOLD THE PULLING HEAD FIRMLY AND SQUARELY AGAINST THE FASTENER HEAD

- SQUEEZE THE HANDLES OF THE HAND OPERATED PULL GUN UNTIL THE FASTENER STEM PULLS THROUGH THE SLEEVE

- COLLECT AND ACCOUNT FOR ALL FASTENER STEMS

INSTALL PULL-THRU BLIND RIVETS USING POWERED INSTALLATION METHOD

- HOLD THE PULLING HEAD FIRMLY AND SQUARELY AGAINST THE FASTENER HEAD

- DEPRESS TRIGGER UNTIL THE FASTENER STEM PULLS THROUGH THE SLEEVE

- COLLECT AND ACCOUNT FOR ALL FASTENER STEMS

INSPECT FASTENER FOR SEATING

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT

USE COMMON HANDTOOLS

USE PULL-THRU INSTALLATION TOOLING

USE PNEUMATIC DRILLS

USE PNEUMATIC PULL-THRU INSTALLATION GUN

USE STANDARD MEASURING INSTRUMENTS

USE WORKPIECE HOLDING DEVICES

USE VACUUM CLEANERS

PREPARE FASTENER HOLES

KNOWLEDGE

INTERPRET TECHNICAL DATA

LOCATE TECHNICAL DATA

RECALL SHOP SAFETY PRECAUTIONS

RECALL FLIGHTLINE SAFETY PRECAUTIONS

RECALL AIRBORNE FIBER SAFETY PRECAUTIONS

RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING

RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS

RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE MATERIALS

RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED STRUCTURES

RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS MATERIALS

RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF HONEYCOMB CORE MATERIALS

SELECT SPECIAL TOOLS

SELECT COMMON HANDTOOLS

SELECT PNEUMATIC HANDTOOLS
SELECT WORKPIECE HOLDING DEVICES
SELECT COMMON HARDWARE
SELECT COMMON FASTENERS
SELECT SPECIAL FASTENERS
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT DRILL BITS
SELECT COMPOSITE TOOLING
G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0110 DRILL OUT AND REMOVE RIVETS
F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION
G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES
G0192 INSPECT INSTALLED RIVETS FOR STRUCTURAL DEFORMITIES
G0216 SECURE SHEET METAL WITH CLECO FASTENERS

TASK #: 00130
REPLACE MILSON FASTENERS

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
SLEEVE BOLT REMOVAL TOOL
BARREL REMOVAL TOOL
RETAINING RING INSTALLATION TOOL

REFERENCES:

T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5 F0112		6.00	88	89	89	81	3.49	18
427X5 F0127		4.10	25	27	29	27	3.84	7
427X5 F0157		4.10	25	27	29	27	3.89	7
427X5 G0166		5.48	73	77	76	58	4.44	18
427X5 G0199		6.41	52	57	61	69	6.00	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

F0157 REMOVE MILSON FASTENERS
- SELECT ALLEN WRENCH
LOOSEN FASTENER
INSPECT HOLE FOR CONDITION AND TOLERANCES
REPAIR HOLE (IF FOUND OUT OF LIMITS DURING INSPECTION)
F0127 INSTALL MILSON FASTENERS
- SELECT INSTALLATION TOOLING
INSPECT FASTENER RECEPTACLE USING BARREL REMOVAL TOOL
REPLACE FASTENER RECEPTACLE (IF FOUND OUT OF LIMITS DURING
INSPECTION)

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE SLEEVE BOLT REMOVAL TOOL
USE BARREL REMOVAL TOOL
USE RETAINING RING INSTALLATION TOOL

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT SPECIAL TOOLS
SELECT COMMON HANDTOOLS
SELECT SPECIAL FASTENERS
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION
G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES

TASK #: 00140

REPLACE HEAVY-DUTY DZUS FASTENERS

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
PNEUMATIC DRILL
MODIFIED HOLE SAW
GROMMET INSTALLATION TOOLING
DZUS INSTALLATION PUNCH
REAMER
VACUUM CLEANER

REFERENCES:

T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5 F0112		6.00	88	89	89	81	3.49	18
427X5 F0118		3.33	33	34	32	21	3.68	15
427X5 F0149		3.41	36	39	40	28	3.37	15
427X5 G0166		5.48	73	77	76	58	4.44	18
427X5 G0199		6.41	52	57	61	69	6.00	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

F0149 REMOVE DZUS FASTENERS
- SELECT HOLE SAW
- INSTALL HOLE SAW INTO DRILL MOTOR CHUCK
- DRILL THROUGH FASTENER GROMMET
INSPECT HOLE FOR CONDITION AND TOLERANCES
REPAIR HOLE (IF FOUND OUT OF LIMITS DURING INSPECTION)
F0118 INSTALL HEAVY-DUTY DZUS FASTENERS
- SELECT INSTALLATION TOOLING
INSPECT FASTENER RECEPTACLE
REPLACE FASTENER RECEPTACLE (IF FOUND OUT OF LIMITS DURING INSPECTION)

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE MODIFIED HOLE SAW
USE DZUS INSTALLATION TOOLING
USE PNEUMATIC DRILLS
USE STANDARD MEASURING INSTRUMENTS
USE VACUUM CLEANERS
PREPARE FASTENER HOLES
USE REAMING TOOLS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT SPECIAL TOOLS
SELECT COMMON HANDTOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT SPECIAL FASTENERS
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION
G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES

TASK #: 00150
REPLACE LIGHT-DUTY DZUS FASTENERS

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
DZUS INSTALLATION TOOLING
VACUUM CLEANER

REFERENCES:

T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

LAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	F0112	6.00	88	89	89	81	3.49	18
427X5	F0124	3.52	23	25	27	28	3.94	7
427X5	F0125	3.55	25	29	30	26	3.76	7
427X5	F0149	3.41	36	39	40	28	3.37	15
427X5	G0166	5.48	73	77	76	58	4.44	18
427X5	G0199	6.41	52	57	61	69	6.00	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

F0149 REMOVE DZUS FASTENERS
- SELECT REMOVAL TOOLING
INSPECT HOLE FOR CONDITION AND TOLERANCES
REPAIR HOLE (IF FOUND OUT OF LIMITS DURING INSPECTION)
INSTALL LIGHT-DUTY DZUS FASTENER
- SELECT INSTALLATION TOOLING
INSPECT FASTENER RECEPTACLE
REPLACE FASTENER RECEPTACLE (IF FOUND OUT OF LIMITS DURING INSPECTION)

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE DZUS INSTALLATION TOOLING
USE STANDARD MEASURING INSTRUMENTS
USE VACUUM CLEANERS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT SPECIAL TOOLS
SELECT COMMON HANDTOOLS
SELECT SPECIAL FASTENERS
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION
F0124 INSTALL LIGHT-DUTY DZUS FASTENERS USING FORM BLOCK AND PUNCH
F0125 INSTALL LIGHT-DUTY DZUS FASTENERS USING SPECIAL DZUS FASTENER
INSTALLATION TOOL
G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES

TASK #: 00160
REPLACE CALFAX FASTENERS

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
VACUUM CLEANER

REFERENCES:

T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5 F0112		6.00	88	89	89	81	3.49	18
427X5 F0115		3.43	23	23	22	16	3.94	7
427X5 F0146		2.91	20	19	18	12	3.56	2
427X5 G0166		5.48	73	77	76	58	4.44	18
427X5 G0199		6.41	52	57	61	69	6.00	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

F0146 REMOVE CALFAX FASTENERS
- SELECT REMOVAL TOOLING
- REMOVE FASTENER RETAINING RING
- REMOVE FASTENER STUD NUT
INSPECT HOLE FOR CONDITION AND TOLERANCES
REPAIR HOLE (IF FOUND OUT OF LIMITS DURING INSPECTION)
INSPECT FASTENER RECEPTACLE
REPLACE FASTENER RECEPTACLE (IF FOUND OUT OF LIMITS DURING INSPECTION)

F0115 INSTALL CALFAX FASTENERS
- SELECT INSTALLATION TOOLING
- INSERT REPLACEMENT STUD NUT
- INSTALL RETAINING RING
INSPECT FASTENER ASSEMBLY FOR SEATING

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE STANDARD MEASURING INSTRUMENTS
USE VACUUM CLEANERS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT COMMON HANDTOOLS
SELECT SPECIAL FASTENERS
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION
G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES

TASK #: 00170
REPLACE CAMLOC FASTENERS

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
CAMLOC PLIERS
CAMLOC GROMMET INSTALLATION TOOL

REFERENCES:

T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	F0112	6.00	88	89	89	81	3.49	18
427X5	F0116	4.76	67	69	69	53	3.32	17
427X5	F0147	3.95	56	59	60	43	3.19	17
427X5	G0166	5.48	73	77	76	58	4.44	18
427X5	G0199	6.41	52	57	61	69	6.00	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

F0147 REMOVE CAMLOC FASTENERS
- SELECT REPLACEMENT TOOLING
- REMOVE CAMLOC STUD ASSEMBLY FROM GROMMET USING CAMLOC PLIERS
- REMOVE CAMLOC GROMMET RETAINING RING
- REMOVE GROMMET FROM HOLE
INSPECT HOLE FOR CONDITION AND TOLERANCES
REPAIR HOLE (IF FOUND OUT OF LIMITS DURING INSPECTION)
INSPECT FASTENER RECEPTACLE
REPLACE FASTENER RECEPTACLE (IF FOUND OUT OF LIMITS DURING INSPECTION)

F0116 INSTALL CAMLOC FASTENERS
- SELECT INSTALLATION TOOLING
- INSERT REPLACEMENT GROMMET INTO HOLE
- INSTALL GROMMET RETAINING RING
- INSTALL CAMLOC STUD ASSEMBLY INTO GROMMET USING CAMLOC PLIERS
INSPECT FASTENER ASSEMBLY FOR SEATING

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE CAMLOC REMOVAL/INSTALLATION TOOLING
USE STANDARD MEASURING INSTRUMENTS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT SPECIAL TOOLS
SELECT COMMON HANDTOOLS
SELECT SPECIAL FASTENERS
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION
G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES

TASK #: 00180
REPLACE AIRLOCK FASTENERS

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
AIRLOCK PLIERS

REFERENCES:

T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	F0112	6.00	88	89	89	81	3.49	18
427X5	F0113	5.02	66	67	67	54	3.26	18
427X5	F0145	4.26	56	58	60	48	3.44	17
427X5	G0166	5.48	73	77	76	58	4.44	18
427X5	G0199	6.41	52	57	61	69	6.00	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

F0145 REMOVE AIRLOCK FASTENERS
- REMOVE CROSS PIN FROM STUD ASSEMBLY USING AIRLOCK PLIERS
- REMOVE AIRLOCK STUD FROM HOLE
INSPECT HOLE FOR CONDITION AND TOLERANCES
REPAIR HOLE (IF FOUND OUT OF LIMITS DURING INSPECTION)
INSPECT FASTENER RECEPTACLE
REPLACE FASTENER RECEPTACLE (IF FOUND OUT OF LIMITS DURING INSPECTION)

F0113 INSTALL AIRLOCK FASTENERS
- INSERT REPLACEMENT AIRLOCK STUD INTO HOLE
- INSTALL CROSS PIN INTO STUD USING AIRLOCK PLIERS
INSPECT FASTENER ASSEMBLY FOR SEATING

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE AIRLOCK REMOVAL/INSTALLATION TOOLING
USE STANDARD MEASURING INSTRUMENTS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT SPECIAL TOOLS
SELECT COMMON HANDTOOLS
SELECT SPECIAL FASTENERS
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION
G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES

TASK #: 00190

INSTALL OR REMOVE MACHINE OR STRUCTURAL SCREWS (F0132)

EQUIPMENT:

COMMON HANDTOOLS

PERSONAL PROTECTIVE EQUIPMENT/CLOTHING

TORQUE LIMITING OR TORQUE MEASURING DEVICE

REFERENCES:

T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5 F0132		4.90	69	72	71	58	3.82	17
427X5 F0112		6.00	88	89	89	81	3.49	18
427X5 F0135		2.90	26	27	29	23	3.20	2
427X5 F0144		4.47	43	45	43	28	5.23	15
427X5 G0166		5.48	73	77	76	58	4.44	18
427X5 G0199		6.41	52	57	61	69	6.00	18
427X5 G0216		4.12	91	92	91	71	2.55	8

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

REMOVE SCREW

- SELECT REMOVAL TOOLING
- BREAK LOOSE AND REMOVE USING STEADY EVEN PRESSURE
- INSPECT HOLE FOR CONDITION AND TOLERANCES
- REPAIR HOLE IF FOUND OUT OF LIMITS

INSTALL SCREW

- SELECT REMOVAL TOOLING
- SELECT TORQUE LIMITING OR MEASURING DEVICE
- INSERT FASTENER INTO HOLE
- START FASTENER INTO NUT PLATE BY HAND
- TORQUE FASTENER TO VALUE SPECIFIED BY T.O.
- INSPECT FASTENER FOR SEATING

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE TORQUE LIMITING/MEASURING DEVICE
USE STANDARD MEASURING INSTRUMENTS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF PLASTICS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE
MATERIALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED
STRUCTURES
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS
MATERIALS
SELECT SPECIAL TOOLS
SELECT COMMON HANDTOOLS
SELECT COMMON HARDWARE
SELECT COMMON FASTENERS
SELECT SPECIAL FASTENERS
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION
F0135 INSTALL OR REMOVE SELF-TAPPING SCREWS
F0144 PRECISION REAM HOLES
G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES

TASK #: 00200

REMOVE FROZEN OR STRIPPED SCREWS (G0212)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
PNEUMATIC RIVET GUN
SCREW EXTRACTOR
TAP WRENCH
JOHNSON BAR
RIVET SET TYPE APEX HOLDER
LOCALLY MANUFACTURED SCREW KNOCKER
APEX BITS

REFERENCES:

T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	G0212	4.62	64	70	72	58	4.56	17

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

REMOVE STRIPPED SCREWS

- SELECT METHOD FOR SPECIFIC APPLICATION
- REMOVE STRIPPED SCREWS USING SCREW EXTRACTOR
- DRILL THROUGH HEAD OF SCREW AND PARTIALLY INTO SHANK
 - INSTALL SCREW EXTRACTOR INTO TAP WRENCH
 - INSERT EXTRACTOR INTO DRILLED PORTION OF SCREW
 - REMOVE SCREW USING STEADY EVEN PRESSURE
- REMOVE STRIPPED SCREWS USING LOCALLY MANUFACTURED SCREW KNOCKER
- HOLD KNOCKER ON EDGE OF SCREW HEAD AT 15 TO 30 DEGREE ANGLE
 - STRIKE BACK OF KNOCKER WITH HAMMER
 - REPEAT PROCEDURE UNTIL SCREW IS LOOSENEED
 - REMOVE SCREW

REMOVE FROZEN SCREWS

- SELECT METHOD FOR SPECIFIC APPLICATION
- REMOVE FROZEN SCREWS USING JOHNSON BAR
- REMOVE ANY SCREW ADJACENT TO FROZEN SCREW
 - ATTACH APEX BIT AND HOLDER TO JOHNSON BAR

- INSTALL SIZE BOLT THROUGH JOHNSON BAR AND INTO
ADJACENT SCREW HOLE
- SET APEX BIT INTO HEAD OF FROZEN SCREW
- APPLY STEADY DOWNWARD PRESSURE TO JOHNSON BAR HANDLE
- REMOVE SCREW BY TURNING APEX HANDLE
- REMOVE FROZEN SCREWS USING RIVET SET TYPE APEX HOLDER
- INSTALL APEX BIT AND SET INTO RIVET GUN
- CONNECT AIR SUPPLY TO RIVET GUN
- SET APEX BIT INTO HEAD OF FROZEN SCREW
- APPLY STEADY DOWNWARD PRESSURE TO RIVET GUN
- DEPRESS RIVET GUN TRIGGER WHILE TURNING APEX HANDLE (CONTINUE
PROCEDURE UNTIL SCREW IS LOOSENEED)
- REMOVE SCREW

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
 USE COMMON HANDTOOLS
 USE SCREW REMOVAL TOOLING
 USE PNEUMATIC RIVET GUNS
 USE STANDARD MEASURING INSTRUMENTS

KNOWLEDGE

INTERPRET TECHNICAL DATA
 LOCATE TECHNICAL DATA
 RECALL SHOP SAFETY PRECAUTIONS
 RECALL FLIGHTLINE SAFETY PRECAUTIONS
 RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
 RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
 RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF PLASTICS
 RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE
 MATERIALS
 RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED
 STRUCTURES
 RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS
 MATERIALS
 SELECT SPECIAL TOOLS
 SELECT COMMON HANDTOOLS
 SELECT PNEUMATIC HANDTOOLS
 SELECT COMMON HARDWARE
 SELECT COMMON FASTENERS
 INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)

TASK #: 00210

INSTALL OR REMOVE DAVIS NUTS (F0129)

EQUIPMENT:

COMMON HANDTOOLS

PERSONAL PROTECTIVE EQUIPMENT/CLOTHING

PNEUMATIC DRILL

DRILL BITS

BP-7000 AIR/HYDRAULIC POWER UNIT ASSEMBLY

BG-2500 GUN ASSEMBLY

ANVIL/CHUCK MANDREL

VACUUM CLEANER

REFERENCES:

T.O. 1F-16A-3-1 (STRUCTURAL REPAIR MANUAL F-16A AIRCRAFT)
APPLICABLE AIRCRAFT STRUCTURES T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB Lnv	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5 F0129		2.71	13	15	14	13	4.31	2
427X5 F0112		6.00	88	89	89	81	3.49	18
427X5 F0144		4.47	43	45	43	28	5.23	15
427X5 G0166		5.48	73	77	76	58	4.44	18
427X5 G0199		6.41	52	57	61	69	6.00	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

REMOVE DAVIS NUT

- SELECT DRILL BIT AND GUIDE BUSHING
- INSTALL DRILL BIT INTO DRILL MOTOR CHUCK
- DRILL INTO RIVET HEAD (TAKE CARE SO AS NOT TO DRILL INTO/THROUGH FASTENER SLEEVE)
- SELECT PIN PUNCH
- INSERT PIN PUNCH INTO FASTENER HEAD AND SNAP OFF HEAD
- PUNCH OUT REMAINING FASTENER SLEEVE
- COLLECT AND ACCOUNT FOR ALL FASTENER SLEEVES AND HEADS
- INSPECT FASTENER HOLE FOR CONDITION AND TOLERANCES
- PREPARE HOLE FOR NEXT SIZE FASTENER (IF FOUND OUT OF LIMITS DURING INSPECTION)

INSTALL DAVIS NUT

- SELECT REPLACEMENT FASTENER
 - SELECT ANVIL, CHUCK, AND MANDREL FOR REPLACEMENT FASTENER
 - SET UP AND ADJUST AIR/HYDRAULIC POWER UNIT ASSEMBLY
 - CONNECT BG2500 GUN ASSEMBLY
 - INSTALL ANVIL, CHUCK, AND MANDREL INTO GUN ASSEMBLY AND ADJUST
 - HAND THREAD DAVIS NUT ONTO MANDREL AND ADJUST
 - INSERT DAVIS NUT INTO FASTENER HOLE
 - DEPRESS PULLING TRIGGER TO PRESS DAVIS NUT INTO PLACE
 - DEPRESS REVERSE TRIGGER TO UNTHREAD MANDREL FROM DAVIS NUT
- F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION

SKILLS

- USE PERSONAL PROTECTIVE EQUIPMENT
- USE COMMON HANDTOOLS
- USE BP-7000 AIR/HYDRAULIC POWER UNIT ASSEMBLY
- USE BG-2500 GUN ASSEMBLY
- USE ANVIL/CHUCK MANDREL
- USE PNEUMATIC DRILLS
- USE STANDARD MEASURING INSTRUMENTS
- USE WORKPIECE HOLDING DEVICES
- USE VACUUM CLEANERS
- PREPARE FASTENER HOLES

KNOWLEDGE

- INTERPRET TECHNICAL DATA
 - LOCATE TECHNICAL DATA
 - RECALL SHOP SAFETY PRECAUTIONS
 - RECALL FLIGHTLINE SAFETY PRECAUTIONS
 - RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
 - RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
 - SELECT COMMON HANDTOOLS
 - SELECT SPECIAL TOOLS
 - SELECT PNEUMATIC HANDTOOLS
 - SELECT SPECIAL FASTENERS
 - INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
 - SELECT DRILL BITS
- G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

- F0144 PRECISION REAM HOLES
- G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES

TASK #: 00220

INSTALL OR REMOVE NUT PLATES OTHER THAN GANG CHANNEL (F0133)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
PNEUMATIC DRILL
DRILL BITS
CLECO FASTENERS
PNEUMATIC RIVET GUN
MICROSHAVER
VACUUM CLEANER

REFERENCES:

T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	F0133	5.60	87	89	89	70	3.60	18
427X5	F0110	6.38	96	96	94	75	3.52	18
427X5	F0112	6.00	88	89	89	81	3.49	18
427X5	F0165	5.76	77	80	79	61	4.07	18
427X5	G0166	5.48	73	77	76	58	4.44	18
427X5	G0181	5.00	88	89	87	64	2.82	13
427X5	G0192	5.26	67	70	73	72	4.39	18
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	G0216	4.12	91	92	91	71	2.55	8

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

REMOVE RIVETS HOLDING NUT PLATE IN PLACE
REMOVE NUT PLATE
INSPECT HOLE FOR CONDITION AND TOLERANCES
PREPARE HOLE FOR NEXT SIZE FASTENER AND/OR REPAIR HOLE AS
REQUIRED (IF FOUND OUT OF LIMITS DURING INSPECTION)
SECURE NUT PLATE INTO PLACE
INSTALL RIVETS
F0165 SMOOTH RIVETS WITH MICROSHAVER (IF REQUIRED)
G0192 INSPECT INSTALLED RIVETS FOR STRUCTURAL DEFORMITIES
INSPECT INSTALLED NUT PLATE

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE MICROSHAVER
USE PNEUMATIC DRILLS
USE PNEUMATIC RIVET GUNS
USE STANDARD MEASURING INSTRUMENTS
USE WORKPIECE HOLDING DEVICES
USE VACUUM CLEANERS
PREPARE FASTENER HOLES

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF PLASTICS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE
MATERIALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED
STRUCTURES
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS
MATERIALS
SELECT COMMON HANDTOOLS
SELECT SPECIAL TOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT WORKPIECE HOLDING DEVICES
SELECT COMMON HARDWARE
SELECT COMMON FASTENERS
SELECT SPECIAL FASTENERS
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT DRILL BITS
G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0110 DRILL OUT AND REMOVE RIVETS
F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION
G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES
G0181 CUT RIVETS
G0216 SECURE SHEET METAL WITH CLECO FASTENERS

TASK #: 00230

INSTALL OR REMOVE GANG CHANNEL NUT PLATES (F0130)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
PNEUMATIC DRILL
DRILL BITS
CLECO FASTENERS
PNEUMATIC RIVET GUN
MICROSHAVER
VACUUM CLEANER

REFERENCES:

T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	F0130	5.19	61	66	69	53	3.77	18
427X5	F0110	6.38	96	96	94	75	3.52	18
427X5	F0112	6.00	88	89	89	81	3.49	18
427X5	F0165	5.76	77	80	79	61	4.07	18
427X5	G0166	5.48	73	77	76	58	4.44	18
427X5	G0181	5.00	88	89	87	64	2.82	13
427X5	G0192	5.26	67	70	73	72	4.39	18
427X5	G0199	6.41	52	57	61	69	6.00	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

REMOVE RIVETS HOLDING GANG CHANNEL IN PLACE
REMOVE GANG CHANNEL
INSPECT HOLE FOR CONDITION AND TOLERANCES
PREPARE HOLE FOR NEXT SIZE FASTENER AND/OR REPAIR HOLE AS
REQUIRED (IF FOUND OUT OF LIMITS DURING INSPECTION)
SECURE GANG CHANNEL INTO PLACE
INSTALL RIVETS
F0165 SMOOTH RIVETS WITH MICROSHAVER (IF REQUIRED)
G0192 INSPECT INSTALLED RIVETS FOR STRUCTURAL DEFORMITIES
INSPECT INSTALLED GANG CHANNEL

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE MICROSHAVER
USE PNEUMATIC DRILLS
USE PNEUMATIC RIVET GUNS
USE STANDARD MEASURING INSTRUMENTS
USE WORKPIECE HOLDING DEVICES
USE VACUUM CLEANERS
PREPARE FASTENER HOLES

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT COMMON HANDTOOLS
SELECT SPECIAL TOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT WORKPIECE HOLDING DEVICES
SELECT COMMON HARDWARE
SELECT COMMON FASTENERS
SELECT SPECIAL FASTENERS
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT DRILL BITS
G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0110 DRILL OUT AND REMOVE RIVETS
F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION
G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES
G0181 CUT RIVETS

TASK #: 00240

INSTALL OR REMOVE HINGES (F0131)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
PNEUMATIC DRILL
DRILL BITS
CLECO FASTENERS
PNEUMATIC RIVET GUN
MICROSHAVER
VACUUM CLEANER

REFERENCES:

T.O. 1-1A-1 (GENERAL MANUAL FOR STRUCTURAL REPAIR)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	F0131	5.09	86	86	85	63	3.97	18
427X5	F0110	6.38	96	96	94	75	3.52	18
427X5	F0112	6.00	88	89	89	81	3.49	18
427X5	F0165	5.76	77	80	79	61	4.07	18
427X5	G0166	5.48	73	77	76	58	4.44	18
427X5	G0181	5.00	88	89	87	64	2.82	13
427X5	G0192	5.26	67	70	73	72	4.39	18
427X5	G0199	6.41	52	57	61	69	6.00	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

REMOVE RIVETS HOLDING HINGE IN PLACE
REMOVE HINGE
INSPECT HOLE FOR CONDITION AND TOLERANCES
PREPARE HOLE FOR NEXT SIZE FASTENER AND/OR REPAIR HOLE AS
REQUIRED (IF FOUND OUT OF LIMITS DURING INSPECTION)
SECURE HINGE INTO PLACE
INSTALL RIVETS
F0165 SMOOTH RIVETS WITH MICROSHAVER (IF REQUIRED)
G0192 INSPECT INSTALLED RIVETS FOR STRUCTURAL DEFORMITIES
INSPECT INSTALLED HINGE

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE MICROSHAVER
USE PNEUMATIC DRILLS
USE PNEUMATIC RIVET GUNS
USE STANDARD MEASURING INSTRUMENTS
USE WORKPIECE HOLDING DEVICES
USE VACUUM CLEANERS
PREPARE FASTENER HOLES

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT COMMON HANDTOOLS
SELECT SPECIAL TOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT WORKPIECE HOLDING DEVICES
SELECT COMMON HARDWARE
SELECT COMMON FASTENERS
SELECT SPECIAL FASTENERS
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT DRILL BITS

G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0110 DRILL OUT AND REMOVE RIVETS
F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION
G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES
G0181 CUT RIVETS

TASK #: 00250

INSTALL OR REMOVE QUICK RELEASE TYPE LATCHES (F0134)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
PNEUMATIC DRILL
DRILL BITS
CLECO FASTENERS
PNEUMATIC RIVET GUN
MICROSHAVER
VACUUM CLEANER

REFERENCES:

T.O. 1-1A-1 (GENERAL MANUAL FOR STRUCTURAL REPAIR)
T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	VTI
427X5	F0134	5.00	73	77	77	55	3.63	18
427X5	F0110	6.38	96	96	94	75	3.52	18
427X5	F0112	6.00	88	89	89	81	3.49	18
427X5	F0165	5.76	77	80	79	61	4.07	18
427X5	G0166	5.48	73	77	76	58	4.44	18
427X5	G0181	5.00	88	89	87	64	2.82	13
427X5	G0192	5.26	67	70	73	72	4.39	18
427X5	G0199	6.41	52	57	61	69	6.00	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

REMOVE RIVETS HOLDING LATCH IN PLACE
REMOVE LATCH
INSPECT HOLE FOR CONDITION AND TOLERANCES
PREPARE HOLE FOR NEXT SIZE FASTENER AND/OR REPAIR HOLE AS
REQUIRED (IF FOUND OUT OF LIMITS DURING INSPECTION)
SECURE LATCH INTO PLACE
INSTALL RIVETS
F0165 SMOOTH RIVETS WITH MICROSHAVER (IF REQUIRED)
G0192 INSPECT INSTALLED RIVETS FOR STRUCTURAL DEFORMITIES
INSPECT INSTALLED LATCH

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE MICROSHAVER
USE PNEUMATIC DRILLS
USE PNEUMATIC RIVET GUNS
USE STANDARD MEASURING INSTRUMENTS
USE WORKPIECE HOLDING DEVICES
USE VACUUM CLEANERS
PREPARE FASTENER HOLES

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT COMMON HANDTOOLS
SELECT SPECIAL TOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT WORKPIECE HOLDING DEVICES
SELECT COMMON HARDWARE
SELECT COMMON FASTENERS
SELECT SPECIAL FASTENERS
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT DRILL BITS

G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0110 DRILL OUT AND REMOVE RIVETS
F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION
G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES
G0181 CUT RIVETS

TASK #: 00260

CUT AND FLANGE LIGHTENING HOLES (G0177)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
PNEUMATIC DRILL
DRILL BITS
TURRET PUNCH
HOLE SAW
DRILL PRESS
FLANGING DIES
ARBOR PRESS
ABRASIVE PAPER
VACUUM CLEANER
TEMPLATE

REFERENCES:

T.O. 1-1A-1 (GENERAL MANUAL FOR STRUCTURAL REPAIR)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5 G0177		4.24	33	36	35	25	4.75	15
427X5 G0199		6.41	52	57	61	69	6.00	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

CENTER PUNCH HOLE LOCATION
CUT LIGHTENING HOLE
- SELECT METHOD FOR SPECIFIC APPLICATION
CUT LIGHTENING HOLE USING TURRET PUNCH
- SELECT PUNCH ON TURRET
- PLACE PART IN TURRET AND ALIGN PUNCH TEAT WITH CENTER PUNCH ON MATERIAL
- PUNCH HOLE
CUT LIGHTENING HOLE USING HOLE SAW
- PILOT DRILL HOLE (IF REQUIRED)
- SELECT HOLE SAW
- INSTALL HOLE SAW INTO DRILL MOTOR CHUCK
- DRILL HOLE

SMOOTH EDGES OF CUT OUT USING FILE AND SANDPAPER
INSERT DIES THROUGH HOLE
ALIGN PART AND DIES IN ARBOR PRESS
APPLY PRESSURE
REMOVE PART AND DIES FROM ARBOR PRESS
REMOVE DIES FROM PART
INSPECT LIGHTENING HOLE FOR DEFECTS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE TURRET PUNCH
USE HOLE SAWS
USE FLANGING DIES
USE PNEUMATIC DRILLS
USE ROTARY FILES/FLAP WHEELS
USE ABRASIVE PAPER
USE STANDARD MEASURING INSTRUMENTS
USE WORKPIECE HOLDING DEVICES
USE VACUUM CLEANERS
USE TEMPLATES
OPERATE DRILL PRESSES
OPERATE HYDRAULIC/ARBOR PRESSES
OPERATE TURRET PUNCHES

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT COMMON HANDTOOLS
SELECT SPECIAL TOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT ROTARY FILES/FLAP WHEELS
SELECT ABRASIVE PAPER
SELECT CUTTERS/BLADES
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT DRILL BITS
RECOGNIZE CAPABILITIES/APPLICATIONS OF DRILL PRESSES
RECOGNIZE CAPABILITIES/APPLICATIONS OF HYDRAULIC/ARBOR PRESSES
RECOGNIZE CAPABILITIES/APPLICATIONS OF TURRET PUNCHES
INTERPRET DRAWINGS AND BLUEPRINTS

GO199

TASK #: 00270

INSTALL NON-FLUSH SKIN PATCHES (G0198)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
CLAMPS
PNEUMATIC DRILL
DRILL BITS
CLECO FASTENERS
PNEUMATIC RIVET GUN
PNEUMATIC HAND HELD GRINDER
PNEUMATIC KETTS SAW
RECIPROCATING SAW
ROTARY FILES
SKIN KNIFE
FOOT SHEAR
ABRASIVE PAPER
MASKING MATERIALS
SOLVENT
SEALANT
TEMPLATE
REAMER
VACUUM CLEANER
METAL FORMING EQUIPMENT
DIMPLING MACHINE

REFERENCES:

T.O. 1-1A-1 (GENERAL MANUAL FOR STRUCTURAL REPAIR)
T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5	G0198	6.22	83	84	84	68	4.41	18
427X5	F0107	6.24	96	95	94	75	3.73	18
427X5	F0108	4.43	41	38	36	26	4.16	15
427X5	F0109	5.00	49	48	47	41	4.19	12
427X5	F0110	6.38	96	96	94	75	3.52	18
427X5	F0111	6.17	93	94	93	75	3.41	18
427X5	F0112	6.00	88	89	89	81	3.49	18
427X5	F0143	6.52	90	90	90	72	4.70	18
427X5	F0165	5.76	77	80	79	61	4.07	18
427X5	G0166	5.48	73	77	76	58	4.44	18
427X5	G0168	5.64	77	77	77	62	3.46	18
427X5	G0179	5.55	87	88	86	66	3.74	18
427X5	G0181	5.00	88	89	87	64	2.82	13
427X5	G0183	5.83	69	71	74	61	5.29	18
427X5	G0187	5.91	86	87	87	66	4.55	18
427X5	G0192	5.26	67	70	73	72	4.39	18
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	G0205	5.33	87	88	87	67	3.86	18
427X5	G0206	5.22	79	81	81	66	3.57	18
427X5	G0207	5.26	38	46	52	50	4.20	12
427X5	G0208	4.74	35	40	45	42	4.20	15
427X5	G0210	5.59	63	68	71	56	4.38	18
427X5	G0216	4.12	91	92	91	71	2.55	8
427X1	H0326	6.69	67	70	71	69	5.51	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT DAMAGED AREA
 LAY OUT DAMAGE REMOVAL CUT OUT
 REMOVE ANY EXISTING RIVETS/FASTENERS IN THE AREA
 REMOVE DAMAGED AREA
 - SELECT METHOD FOR SPECIFIC APPLICATION
 G0205 REMOVE DAMAGED AREAS BY CHAIN DRILLING
 G0206 REMOVE DAMAGED AREAS WITH AVIATION SNIPS
 G0207 REMOVE DAMAGED AREAS WITH PNEUMATIC KETTS SAWS
 G0208 REMOVE DAMAGED AREAS WITH RECIPROCATING SAWS
 G0210 REMOVE DAMAGED AREAS WITH SKIN KNIVES
 SMOOTH EDGES OF CUT OUT WITH FILE AND SAND PAPER
 FABRICATE NON-FLUSH PATCH PLATE
 F0143 LAYOUT RIVET PATTERNS
 PREPARE RIVET HOLES
 G0168 APPLY CORROSION PREVENTATIVES
 ASSEMBLE REPAIR
 G0216 SECURE SHEET METAL WITH CLECO FASTENERS
 INSTALL RIVETS
 F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION (IF REQUIRED)
 F0165 SMOOTH RIVETS WITH MICROSHAVER (IF REQUIRED)
 G0192 INSPECT INSTALLED RIVETS FOR STRUCTURAL DEFORMITIES

INSPECT REPAIR
PERFORM CLEANUP OF AREA AFTER COMPLETION TO PREVENT POSSIBLE
FOREIGN OBJECT DAMAGE

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE MICROSHAVER
USE SKIN KNIFE
USE PNEUMATIC KETTS/RECIPROCATING SAWS
USE PNEUMATIC DRILLS
USE PNEUMATIC SAWS
USE PNEUMATIC RIVET GUNS
OPERATE HAND-HELD GRINDERS
USE ROTARY FILES/FLAP WHEELS
USE ABRASIVE PAPER
USE STANDARD MEASURING INSTRUMENTS
USE MACHINE GUARDS
USE WORKPIECE HOLDING DEVICES
APPLY MASKING MATERIALS
APPLY SOLVENTS
APPLY SEALANTS
USE VACUUM CLEANERS
APPLY PROTECTIVE COATINGS
USE TEMPLATES
PREPARE FASTENER HOLES
USE REAMING TOOLS
USE DIMPLING MACHINES
OPERATE CONTOUR CUTTING MACHINES
OPERATE METAL FORMING MACHINES

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
H0326 IDENTIFY TYPES/CHARACTERISTICS OF CORROSION
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT COMMON HANDTOOLS
SELECT SPECIAL TOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT GRINDING WHEELS
SELECT ROTARY FILES/FLAP WHEELS
SELECT ABRASIVE PAPER
SELECT CLAMPS
SELECT WORKPIECE HOLDING DEVICES
SELECT COMMON HARDWARE
SELECT COMMON FASTENERS
SELECT SPECIAL FASTENERS
SELECT SOLVENTS
SELECT SEALANTS

PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT MASKING MATERIALS
SELECT PROTECTIVE COATINGS
SELECT CUTTERS/BLADES
SELECT REAMERS
SELECT DRILL BITS
RECOGNIZE TYPES/USES OF DIMPLING MACHINES
RECOGNIZE CAPABILITIES/APPLICATIONS OF CONTOUR CUTTING MACHINES
RECOGNIZE CAPABILITIES/APPLICATIONS OF METAL FORMING MACHINES
SELECT DAMAGE REMOVAL TECHNIQUES
G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0107 COUNTER-SINK RIVET HOLES
F0108 DIMPLE RIVET HOLES USING COIN METHOD
F0109 DIMPLE RIVET HOLES USING RADIUS METHOD
F0110 DRILL OUT AND REMOVE RIVETS
F0111 DRILL RIVET HOLES
G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES
G0179 CUT AND TRIM SHEET METAL
G0181 CUT RIVETS
G0183 DEVELOP LAYOUTS OF REPAIRS OR PARTS
G0187 FORM AND TRIM METAL PATCHES OR REINFORCEMENTS

TASK #: 00280
 INSTALL FLUSH SKIN PATCHES (G0197)

EQUIPMENT:

COMMON HANDTOOLS
 PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
 CLAMPS
 PNEUMATIC DRILL
 DRILL BITS
 CLECO FASTENERS
 PNEUMATIC RIVET GUN
 PNEUMATIC HAND HELD GRINDER
 PNEUMATIC KETTS SAW
 RECIPROCATING SAW
 ROTARY FILES
 SKIN KNIFE
 FOOT SHEAR
 ABRASIVE PAPER
 MASKING MATERIALS
 SOLVENT
 SEALANT
 TEMPLATE
 REAMER
 VACUUM CLEANER
 METAL FORMING EQUIPMENT
 DIMPLING MACHINE

REFERENCES:

T.O. 1-1A-1 (GENERAL MANUAL FOR STRUCTURAL REPAIR)
 T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	G0197	6.45	75	78	79	63	5.12	18
427X5	F0107	6.24	96	95	94	75	3.73	18
427X5	F0108	4.43	41	38	36	26	4.16	15
427X5	F0109	5.00	49	48	47	41	4.19	12
427X5	F0110	6.38	96	96	94	75	3.52	18
427X5	F0111	6.17	93	94	93	75	3.41	18
427X5	F0112	6.00	88	89	89	81	3.49	18
427X5	F0143	6.52	90	90	90	72	4.70	18

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5	F0165	5.76	77	80	79	61	4.07	18
427X5	G0166	5.48	73	77	76	58	4.44	18
427X5	G0168	5.64	77	77	77	62	3.46	18
427X5	G0179	5.55	87	88	86	66	3.74	18
427X5	G0181	5.00	88	89	87	64	2.82	13
427X5	G0183	5.83	69	71	74	61	5.29	18
427X5	G0187	5.91	86	87	87	66	4.55	18
427X5	G0192	5.26	67	70	73	72	4.39	18
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	G0205	5.33	87	88	87	67	3.86	18
427X5	G0206	5.22	79	81	81	66	3.57	18
427X5	G0207	5.26	38	46	52	50	4.20	12
427X5	G0208	4.74	35	40	45	42	4.20	15
427X5	G0210	5.59	63	68	71	56	4.38	18
427X5	G0216	4.12	91	92	91	71	2.55	8
427X1	H0326	6.69	67	70	71	69	5.51	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT DAMAGED AREA
LAYOUT DAMAGE REMOVAL CUTOUT
REMOVE ANY EXISTING RIVETS/FASTENERS IN THE AREA
REMOVE DAMAGED AREA
- SELECT METHOD FOR SPECIFIC APPLICATION
G0205 REMOVE DAMAGED AREAS BY CHAIN DRILLING
G0206 REMOVE DAMAGED AREAS WITH AVIATION SNIPS
G0207 REMOVE DAMAGED AREAS WITH PNEUMATIC KETTS SAWS
G0208 REMOVE DAMAGED AREAS WITH RECIPROCATING SAWS
G0210 REMOVE DAMAGED AREAS WITH SKIN KNIVES
FINISH/SMOOTH EDGES OF CUT OUT
FABRICATE DOUBLER PLATE (SIZE AND TYPE DETERMINED BY SPECIFIC APPLICATION)
FABRICATE FLUSH FILLER PLATE (SIZE AND TYPE DETERMINED BY SPECIFIC APPLICATION)
SELECT REPLACEMENT RIVETS
F0143 LAYOUT RIVET PATTERNS
PREPARE RIVET HOLES
G0168 APPLY CORROSION PREVENTATIVES
ASSEMBLE REPAIR
G0216 SECURE SHEET METAL WITH CLECO FASTENERS
INSTALL RIVETS
F0112 INSPECT FASTENERS FOR FLUSH INSTALLATION
F0165 SMOOTH RIVETS WITH MICROSHAVER (IF REQUIRED)
G0192 INSPECT INSTALLED RIVETS FOR STRUCTURAL DEFORMITIES
INSPECT REPAIR
PERFORM CLEANUP OF AREA AFTER COMPLETION TO PREVENT POSSIBLE FOREIGN OBJECT DAMAGE

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE MICROSHAVER
USE SKIN KNIFE
USE PNEUMATIC KETTS/RECIPROCATING SAWS
USE PNEUMATIC DRILLS
USE PNEUMATIC RIVET GUNS
USE PNEUMATIC LAWS
OPERATE HAND-HELD GRINDERS
USE ROTARY FILES/FLAP WHEELS
USE ABRASIVE PAPER
USE STANDARD MEASURING INSTRUMENTS
USE MACHINE GUARDS
USE WORKPIECE HOLDING DEVICES
APPLY MASKING MATERIALS
APPLY SOLVENTS
APPLY SEALANTS
USE VACUUM CLEANERS
APPLY PROTECTIVE COATINGS
USE TEMPLATES
PREPARE FASTENER HOLES
USE REAMING TOOLS
USE DIMPLING MACHINES
OPERATE CONTOUR CUTTING MACHINES
OPERATE METAL FORMING MACHINES

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
H0326 IDENTIFY TYPES/CHARACTERISTICS OF CORROSION
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT COMMON HANDTOOLS
SELECT SPECIAL TOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT GRINDING WHEELS
SELECT ROTARY FILES/FLAP WHEELS
SELECT ABRASIVE PAPER
SELECT CLAMPS
SELECT WORKPIECE HOLDING DEVICES
SELECT COMMON HARDWARE
SELECT COMMON FASTENERS
SELECT SPECIAL FASTENERS
SELECT SOLVENTS
SELECT SEALANTS
PERFORM BASIC MATHEMAT. (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT MASKING MATERIALS
SELECT PROTECTIVE COATINGS

SELECT CUTTERS/BLADES
SELECT REAMERS
SELECT DRILL BITS
RECOGNIZE TYPES/USES OF DIMPLING MACHINES
RECOGNIZE CAPABILITIES/APPLICATIONS OF CONTOUR CUTTING MACHINES
RECOGNIZE CAPABILITIES/APPLICATIONS OF METAL FORMING MACHINES
SELECT DAMAGE REMOVAL TECHNIQUES
G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

F0107 COUNTER-SINK RIVET HOLES
F0108 DIMPLE RIVET HOLES USING COIN METHOD
F0109 DIMPLE RIVET HOLES USING RADIUS METHOD
F0110 DRILL OUT AND REMOVE RIVETS
F0111 DRILL RIVET HOLES
G0166 ALIGN RIVET OR SPECIAL FASTENER HOLES
G0179 CUT AND TRIM SHEET METAL
G0181 CUT RIVETS
G0183 DEVELOP LAYOUTS OF REPAIRS OR PARTS
G0187 FORM AND TRIM METAL PATCHES OR REINFORCEMENTS

TASK #: 00290
RESHAPE DAMAGED METAL AREAS (G0215)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
CLAMPS
PNEUMATIC DRILL
DENT PULLER
METAL FORMING EQUIPMENT
FORMING DIES
WOODEN SHAPING TOOLS
DOLLYS
SAND BAGS
SOLVENT
ABRASIVE PAPER

REFERENCES:

T.O. 1-1A-1 (GENERAL MANUAL FOR STRUCTURAL REPAIR)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5	G0215	4.81	62	67	69	54	4.87	17
427X5	G0182	4.95	51	56	58	45	6.07	17
427X5	G0185	5.12	33	40	43	43	5.57	12
427X5	G0211	3.14	12	13	15	17	4.27	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

G0185 INSPECT DAMAGED AREA
FABRICATE FORMING BLOCKS (IF REQUIRED)
REMOVE ALL AREA OBSTRUCTIONS TO PROVIDE ACCESS (IF POSSIBLE)
RESHAPE AREA TO RESTORE ORIGINAL CONTOUR
- SELECT METHOD FOR SPECIFIC APPLICATION
- SELECT TOOLING FOR SPECIFIC APPLICATION
INSPECT RESHAPED AREA FOR DEFECTS

SKILLS

- USE PERSONAL PROTECTIVE EQUIPMENT
- USE COMMON HANDTOOLS
- USE DENT PULLER
- USE FORMING DIES
- USE WOODEN SHAPING TOOLS
- USE PNEUMATIC DRILLS
- USE ABRASIVE PAPER
- USE STANDARD MEASURING INSTRUMENTS
- USE MACHINE GUARDS
- USE WORKPIECE HOLDING DEVICES
- APPLY SOLVENTS
- OPERATE METAL FORMING MACHINES

KNOWLEDGE

- INTERPRET TECHNICAL DATA
- LOCATE TECHNICAL DATA
- RECALL SHOP SAFETY PRECAUTIONS
- RECALL FLIGHTLINE SAFETY PRECAUTIONS
- RECALL CHEMICAL SAFETY PRECAUTIONS
- RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
- RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
- RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED STRUCTURES
- SELECT COMMON HANDTOOLS
- SELECT SPECIAL TOOLS
- SELECT PNEUMATIC HANDTOOLS
- SELECT ABRASIVE PAPER
- SELECT CLAMPS
- SELECT WORKPIECE HOLDING DEVICES
- INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
- SELECT DRILL BITS
- RECOGNIZE CAPABILITIES/APPLICATIONS OF METAL FORMING MACHINES
- SELECT DAMAGE REMOVAL TECHNIQUES

RELATED TASKS

- G0182 DESIGN MOLDS, FORMING BLOCKS, OR TEMPLATES
- G0211 REMOVE DENTS USING DENT PULLER ASSEMBLY

TASK #: 00300
INSPECT SPOT WELDS (G0196)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
STRONG LIGHT SOURCE
INSPECTION MIRROR
SOLVENT

REFERENCES:

T.O. 1-1A-1 (GENERAL MANUAL FOR STRUCTURAL REPAIR)
T.O. 34W4-1-5 (WELDING THEORY AND APPLICATION)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	G0196	3.83	20	24	28	41	3.98	7
427X1	H0326	6.69	67	70	71	69	5.51	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT OUTER SURFACE OF SPOT WELD FOR CRACKS, PITS, AND
SMOOTHNESS
CHECK FOR EVIDENCE OF WELD PULLING THROUGH MATERIAL
CHECK ALONG EDGES OF MATING SHEETS FOR SIGNS OF SEPARATION
USE TAP TEST METHOD TO SELECT NON-VISIBLE INTERNAL FAILURE

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE INSPECTION MIRROR
APPLY SOLVENTS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
H0326 IDENTIFY TYPES/CHARACTERISTICS OF CORROSION
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT SOLVENTS

TASK #: 00310

SPOT WELD SHEET METAL PARTS (G0217)

EQUIPMENT:

COMMON HANDTOOLS

PERSONAL PROTECTIVE EQUIPMENT/CLOTHING

CLAMPS

RESISTANCE WELDING MACHINE

RESISTANCE WELDING MACHINE ATTACHMENTS

SOLVENT

REFERENCES:

T.O. 1-1A-1 (GENERAL MANUAL FOR STRUCTURAL REPAIR)

T.O. 34W4-1-5 (WELDING THEORY AND APPLICATION)

CONDITIONS CUES:

CONDITION: IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	G0217	2.72	12	17	16	15	4.14	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSTALL SELECTED ATTACHMENTS ONTO MACHINE

ADJUST MACHINE FOR CORRECT VOLTAGE, AMPERAGE, AND PRESSURE

TEST WELD ON IDENTICAL SCRAP MATERIAL

RE-ADJUST MACHINE (IF REQUIRED)

INSURE THAT PARTS TO BE WELDED ARE FREE OF GREASE, OIL, DIRT, AND OXIDES

ASSEMBLE PARTS

PLACE ASSEMBLED PARTS BETWEEN ELECTRODES AT POINT WHERE WELD IS

DESIRED AND HOLD FIRMLY

DEPRESS FOOT PEDAL TO WELD

REMOVE WELDED PARTS FROM MACHINE

INSPECT SPOT WELDS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE WORKPIECE HOLDING DEVICES
APPLY SOLVENTS
OPERATE RESISTANCE WELDING EQUIPMENT

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT SOLVENTS
SELECT CLAMPS
SELECT WORKPIECE HOLDING DEVICES
RECOGNIZE CAPABILITIES/APPLICATIONS OF RESISTANCE WELDING
EQUIPMENT

TASK #: 00320

INSPECT CABLES FOR BROKEN WIRES, WORN SPOTS, KINKS, AND CORROSION (K0308)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
RAG
MAGNIFYING GLASS
FLASHLIGHT

REFERENCES:

T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR HANGER

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	K0308	4.22	22	24	26	24	4.13	7
427X1	H0326	6.69	67	70	71	69	5.51	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

LAY RAG OVER CABLE
PULL RAG SLOWLY ALONG CABLE AND NOTE ANY SNAGGING INDICATING
BROKEN WIRES (DO NOT GRASP RAG TIGHTLY WITH BARE HAND
DUE TO POSSIBLE INJURY CAUSED BY BROKEN CABLE WIRES)
VISUALLY INSPECT CABLE FOR WORN SPOTS, KINKS, AND CORROSION
(INSPECTION FOR CORROSION OF CABLES UNDER LOADED
CONDITIONS REQUIRE CABLE REMOVAL)

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE MAGNIFYING GLASS

KNOWLEDGE

INTERPRET TECHNICAL DATA

LOCATE TECHNICAL DATA

RECALL FLIGHTLINE SAFETY PRECAUTIONS

RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING

H0326 IDENTIFY TYPES/CHARACTERISTICS OF CORROSION

TASK #: 00330
FABRICATE AIRCRAFT CABLE ASSEMBLIES

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
CABLE CUTTER (AS AVAILABLE)
CABLE SWAGER (AS AVAILABLE)
BELT SANDER
CABLE PULL TESTER
RED PAINT

REFERENCES:

T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	K0300	3.97	14	14	15	23	5.75	7
427X5	K0303	4.47	21	24	28	23	4.33	7
427X5	K0304	4.97	52	55	57	42	3.61	17
427X5	K0305	4.31	21	24	25	20	3.48	7
427X5	K0306	4.85	15	19	23	24	4.44	7
427X5	K0307	2.48	2	2	2	3	3.92	2
427X5	K0310	4.97	24	26	29	28	4.88	7
427X5	K0311	3.72	13	14	15	13	5.01	7
427X5	K0312	6.02	44	49	52	40	5.27	12
427X5	K0313	6.09	38	43	45	36	5.02	12

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

MEASURE CABLE CONSTRUCTION MATERIAL TO DESIRED LENGTH
MARK AND CUT CABLE CONSTRUCTION MATERIAL
- SELECT METHOD FOR SPECIFIC APPLICATION
K0303 CUT CABLES USING CABLE CUTTING MACHINES
K0304 CUT CABLES USING COLD CHISELS
K0305 CUT CABLES USING HAND CABLE CUTTERS
K0306 CUT CABLES USING PNEUMATIC CABLE CUTTER
K0307 CUT CABLES USING RADIAC
K0311 SWAGE CABLE TERMINALS USING KEARNEY SWAGING MACHINE

K0312 SWAGE CABLE TERMINALS USING PNEUMATIC CABLE SWAGER
SLIP TERMINAL OVER END OF CABLE CONSTRUCTION MATERIAL
PLACE TERMINAL BETWEEN SWAGGING DIES
SWAGE TERMINAL INTO PLACE
CHECK TERMINAL WITH GO/NO-GO GAGE TO INSURE PROPERLY SWAGED
(REPEAT OPERATION IF REQUIRED - REPEAT OPERATION FOR OTHER END
OF CABLE)
CHECK CABLE PULL TESTER FOR CALIBRATION
APPLY RED PAINT TO CABLE NEXT TO TERMINAL END
PLACE CABLE END INTO PULL TESTER
APPLY LOAD TO CABLE TERMINAL
REMOVE CABLE FROM TESTER
INSPECT CABLE AND TERMINAL END VISUALLY TO INSURE THAT NO
SLIPPAGE HAS OCCURRED (REPEAT OPERATION FOR OTHER END OF
CABLE)
SAND OFF ANY EXCESS CABLE PROTRUDING THROUGH TERMINAL USING BELT
SANDER (BALL END TERMINALS ONLY)
INSPECT FABRICATED CABLE

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE PNEUMATIC CABLE CUTTERS
USE PNEUMATIC CABLE SWAGERS
USE STANDARD MEASURING INSTRUMENTS
USE MACHINE GUARDS
OPERATE CABLE CUTTING MACHINES
OPERATE CABLE TESTERS
OPERATE CABLE SWAGING EQUIPMENT

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
SELECT COMMON HANDTOOLS
SELECT SPECIAL TOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT CABLES
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
INTERPRET GAGES OR METERS
SELECT CUTTERS/BLADES
RECOGNIZE CAPABILITIES/APPLICATIONS OF CABLE CUTTERS
RECOGNIZE CAPABILITIES/APPLICATIONS OF CABLE TESTERS
RECOGNIZE CAPABILITIES/APPLICATIONS OF CABLE SWAGING EQUIPMENT
SELECT CABLE TERMINALS

K0310 SELECT CABLE CONSTRUCTION MATERIAL
G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

K0300 CALIBRATE CABLE TESTER
K0313 TEST SWAGED TERMINALS USING PULL TESTER

TASK #: 00340

INSPECT TUBING FOR DAMAGE (L0323)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
FLASHLIGHT
INSPECTION MIRROR
MICROMETER

REFERENCES:

T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	L0323	5.41	50	53	58	61	4.21	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT TUBING VISUALLY FOR DENTS, CHAFFING, CRACKS, SCRATCHES,
AND/OR CORROSION
INSPECT INSTALLED TUBING VISUALLY FOR LEAKS AT FITTINGS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE INSPECTION MIRROR
USE MICROMETER

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL FLIGHTLINE SAFETY PRECAUTIONS
SELECT COMMON HANDTOOLS
SELECT PRECISION MEASURING INSTRUMENTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)

TASK #: 00350

FABRICATE AIRCRAFT TUBING ASSEMBLIES

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
TUBE BENDING EQUIPMENT (AS AVAILABLE)
TUBE FLARING EQUIPMENT (AS AVAILABLE)
ABRASIVE PAPER

REFERENCES:

T.O. 1-1A-1 (GENERAL MANUAL FOR STRUCTURAL REPAIR)
T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	L0314	4.43	31	32	31	25	4.98	15
427X5	L0315	3.17	14	14	12	12	5.19	7
427X5	L0316	5.71	71	72	73	55	4.88	18
427X5	L0317	6.09	56	58	60	46	5.95	18
427X5	L0318	4.17	31	33	34	28	3.97	15
427X5	L0319	5.21	76	77	77	59	3.46	18
427X5	L0320	5.03	77	76	76	58	3.36	18
427X5	L0321	6.02	58	59	61	50	4.85	18
427X5	L0322	5.12	73	74	74	57	3.46	18
427X5	L0324	4.83	47	50	53	43	4.46	17
427X5	L0325	5.48	29	33	38	45	5.39	12
427X5	L0326	1.93	6	7	7	6	3.53	2
427X5	L0327	2.09	5	5	5	5	4.99	2
427X5	L0328	5.93	50	53	57	52	4.43	18
427X5	L0329	5.93	68	70	73	58	4.13	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

L0315 LAYOUT BEND LINES ON MATERIAL (INSURE ENDS ARE CUT SQUARE)
L0316 BEND TUBING USING FUSIBLE ALLOY
L0317 BEND TUBING USING HAND TUBE BENDERS
BEND TUBING USING PRODUCTION TUBE BENDER
BEND TUBING TO SPECIFICATIONS

L0320 INSPECT BENDS
 DEBURR TUBING
 L0318 CLEAN TUBE INTERIORS
 SLIP HARDWARE ONTO TUBE ENDS
 FLARE OR BEAD TUBING
 INSPECT FABRICATED TUBING ASSEMBLY
 L0326 PLACE SYSTEM IDENTIFICATION LABELS ON TUBING ASSEMBLIES

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
 USE COMMON HANDTOOLS
 USE ABRASIVE PAPER
 USE STANDARD MEASURING INSTRUMENTS
 USE MACHINE GUARDS
 USE WORKPIECE HOLDING DEVICES
 OPERATE TUBE BENDING EQUIPMENT
 OPERATE TUBE FLARING EQUIPMENT

KNOWLEDGE

INTERPRET TECHNICAL DATA
 LOCATE TECHNICAL DATA
 RECALL SHOP SAFETY PRECAUTIONS
 RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
 RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
 SELECT COMMON HANDTOOLS
 SELECT PNEUMATIC HANDTOOLS
 SELECT ABRASIVE PAPER
 SELECT WORKPIECE HOLDING DEVICES
 PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
 INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
 SELECT CUTTERS/BLADES
 L0325 INTERPRET SPECIFICATIONS FOR AIRCRAFT TUBING ASSEMBLIES
 RECOGNIZE CAPABILITIES/APPLICATIONS OF TUBE BENDING EQUIPMENT
 RECOGNIZE TYPES/USES OF TUBE FLARING EQUIPMENT
 RECOGNIZE TYPES/APPLICATIONS OF TUBE FLARES
 SELECT TUBING
 SELECT TUBING HARDWARE
 RECOGNIZE CAPABILITIES/APPLICATIONS OF TUBE CUTTERS
 L0328 SELECT AIRCRAFT TUBING MATERIALS
 G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

L0314 BEAD TUBING
 L0319 CUT TUBING
 L0321 DOUBLE FLAIR TUBING
 L0322 FILE OR SAND TUBING
 L0324 INSTALL PRESET MILITARY STANDARD (MS) TUBE HARDWARE
 L0327 REWORK TUBING USING BULLETS OR SAND
 L0329 SINGLE FLAIR TUBING

TASK #: 00360

REPAIR DAMAGED AIRCRAFT TUBING ASSEMBLIES USING PERMASWAGE TUBING REPAIR SYSTEM

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
PERMASWAGE INSTALLATION KIT
PERMASWAGE HYDRAULIC UNIT
PERMASWAGE FITTINGS/COUPLINGS
ABRASIVE PAPER

REFERENCES:

T.O. 1-1A-1 (GENERAL MANUAL FOR STRUCTURAL REPAIR)
T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	L0318	4.17	31	33	34	28	3.97	15
427X5	L0319	5.21	76	77	77	59	3.46	18
427X5	L0320	5.03	77	76	76	58	3.36	18
427X5	L0322	5.12	73	74	74	57	3.46	18
427X5	L0325	5.48	29	33	38	45	5.39	12
427X5	L0328	5.93	50	53	57	52	4.43	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

CUT OUT DAMAGED AREA
L0320 DEBURR TUBING
L0318 CLEAN TUBE INTERIORS
FABRICATE REPAIR SPLICE (IF REQUIRED BY SPECIFIC APPLICATION)
SET UP AND PERGE HYDRAULIC UNIT
CONNECT SWAGING HEAD TO HYDRAULIC UNIT
LOCATE AND MARK TUBING INSERTION POINT ON TUBING ENDS USING MARKING WINDOW
SLIDE FITTING/COUPLING ONTO TUBE END UNTIL INSERTION MARK IS COVERED
POSITION YOKE AROUND TUBE AND FITTING/COUPLING

SLIDE LOWER DIE INTO PLACE

- INSURE UPPER AND LOWER DIES ARE PROPERLY ALIGNED PRIOR TO
SWAGING OPERATION

PERFORM SWAGING USING THE MANUAL OR PNEUMATIC SWAGING MODE

RELEASE PRESSURE AND REMOVE YOKE ASSEMBLY FROM TUBE

CHECK SWAGE WITH GO/NO-GO GAGE

INSPECT FITTING/COUPLING VISUALLY

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT

USE COMMON HANDTOOLS

USE PERMASWAGE REPAIR EQUIPMENT

USE ABRASIVE PAPER

USE STANDARD MEASURING INSTRUMENTS

USE PERMASWAGE GO/NO-GO GAGE

USE WORKPIECE HOLDING DEVICES

OPERATE TUBING REPAIR EQUIPMENT

KNOWLEDGE

INTERPRET TECHNICAL DATA

LOCATE TECHNICAL DATA

RECALL SHOP SAFETY PRECAUTIONS

RECALL FLIGHTLINE SAFETY PRECAUTIONS

RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING

RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS

SELECT COMMON HANDTOOLS

SELECT SPECIAL TOOLS

SELECT ABRASIVE PAPER

SELECT PRECISION MEASURING INSTRUMENTS

SELECT WORKPIECE HOLDING DEVICES

INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)

INTERPRET GAGES OR METERS

SELECT CUTTERS/BLADES

L0325 INTERPRET SPECIFICATIONS FOR AIRCRAFT TUBING ASSEMBLIES

SELECT TUBING

SELECT TUBING HARDWARE

RECOGNIZE CAPABILITIES/APPLICATIONS OF TUBING REPAIR EQUIPMENT

RECOGNIZE TYPES/APPLICATIONS OF TUBING REPAIR SYSTEMS

RECOGNIZE CAPABILITIES/APPLICATIONS OF TUBE CUTTERS

L0328 SELECT AIRCRAFT TUBING MATERIALS

SELECT DAMAGE REMOVAL TECHNIQUES

G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

L0319 CUT TUBING

L0322 FILE OR SAND TUBING

TASK #: 00370

INSTALL DYNATUBE FITTINGS ON AIRCRAFT TUBING ASSEMBLIES

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
DYNATUBE INSTALLATION KIT
DYNATUBE FITTINGS
DIAL TYPE DIAMETER GAGE
HOLDING DEVICE
ABRASIVE PAPER

REFERENCES:

DYNATUBE FITTING INSTALLATION INSTRUCTIONS AND BASIC DESIGN DATA
(RESISTOFLEX CORPORATION)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	L0318	4.17	31	33	34	28	3.97	15
427X5	L0320	5.03	77	76	76	58	3.36	18
427X5	L0322	5.12	73	74	74	57	3.46	18
427X5	L0325	5.48	29	33	38	45	5.39	12
427X5	L0328	5.93	50	53	57	52	4.43	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

L0320 DEBUR TUBING
CHAMFER INSIDE OF TUBE END TO 60 DEGREES
L0318 CLEAN TUBE INTERIORS
SLIDE FITTING ONTO TUBE END AND INSURE PROPER POSITIONING
LUBRICATE EXPANDER AND INSERT INTO FITTING
INSTALL FIRST HALF OF DIE SET
ASSEMBLE AND INSTALL SECOND HALF OF DIE SET AND HOLDING COLLAR
INSPECT ASSEMBLY FOR PROPER POSITIONING OF FITTING AND TOOLING
COMPONENTS
TURN MANDREL CLOCKWISE UNTIL DRIVE HEAD CONTACTS STOP COLLAR
TURN MANDREL CLOCKWISE APPROXIMATELY TEN ADDITIONAL TURNS WHILE
HOLDING ASSEMBLY FROM TURNING
TURN MANDREL COUNTER-CLOCKWISE UNTIL IT BACKS OUT FREELY

DISASSEMBLE AND REMOVE ALL INSTALLATION TOOLING
MEASURE INSIDE DIAMETER OF TUBING TO INSURE PROPER EXPANSION
CLEAN TUBE/FITTING ASSEMBLY INTERIORS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE DYNATUBE INSTALLATION KIT
USE ABRASIVE PAPER
USE STANDARD MEASURING INSTRUMENTS
USE DIAL TYPE DIAMETER GAGE
USE WORKPIECE HOLDING DEVICES

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT COMMON HANDTOOLS
SELECT SPECIAL TOOLS
SELECT ABRASIVE PAPER
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
INTERPRET GAGES OR METERS
SELECT CUTTERS/BLADES
L0325 INTERPRET SPECIFICATIONS FOR AIRCRAFT TUBING ASSEMBLIES
SELECT TUBING
SELECT TUBING HARDWARE
RECOGNIZE CAPABILITIES/APPLICATIONS OF TUBE CUTTERS
G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

L0322 FILE OR SAND TUBING
L0328 SELECT AIRCRAFT TUBING MATERIALS

TASK #: 00380

REPAIR DAMAGED AIRCRAFT TUBING ASSEMBLIES USING CRYOFIT TUBING REPAIR SYSTEM

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
CRYOFIT INSTALLATION TOOLING
CRYOFIT TUBE CONNECTOR COUPLINGS
LIQUID NITROGEN
MASKING TAPE
ABRASIVE PAPER

REFERENCES:

T.O. 1-1A-1 (GENERAL MANUAL FOR STRUCTURAL REPAIR)
T.O. 1-1A-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP
CONDITION: SAFE HANDLING OF LIQUID NITROGEN

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	L0318	4.17	31	33	34	28	3.97	15
427X5	L0319	5.21	76	77	77	59	3.46	18
427X5	L0320	5.03	77	76	76	58	3.36	18
427X5	L0322	5.12	73	74	74	57	3.46	18
427X5	L0325	5.48	29	33	38	45	5.39	12
427X5	L0328	5.93	50	53	57	52	4.43	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

CUT OUT DAMAGED AREA
KEEP COUPLING IN LIQUID NITROGEN UNTIL READY FOR USE
L0320 DEBURR TUBING
L0318 CLEAN TUBE INTERIORS
FABRICATE REPAIR SPLICE (IF REQUIRED BY SPECIFIC APPLICATION)
PLACE INSTALLATION TOOL AND TUBE CHILLER IN LIQUID NITROGEN UNTIL
READY FOR USE
LOCATE AND MARK TUBING INSERTION POINT ON TUBING ENDS USING
TEST COUPLING
REPOSITION TEST COUPLING AND MAKE CHECK GAGE MARKS

APPLY MASKING TAPE OUTSIDE OF INSERTION MARKS TO FACILITATE
COUPLING INSTALLATION
CLAMP TUBE CHILLER ONTO TUBE ENDS AND ALLOW ENDS TO COOL
REMOVE TUBE CHILLER AND IMMEDIATELY SLIP COUPLING INTO PLACE
INSURE THAT THE COUPLING IS PROPERLY POSITIONED
REMOVE INSTALLATION TOOL AND ALLOW COUPLING TO REACH AMBIENT
TEMPERATURE
VERIFY THE COUPLE CONNECTION USING THE CHECK GAGE
INSPECT CONNECTION VISUALLY

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE CRYOFIT REPAIR EQUIPMENT
USE ABRASIVE PAPER
USE STANDARD MEASURING INSTRUMENTS
USE WORKPIECE HOLDING DEVICES
APPLY MASKING MATERIALS
OPERATE TUBING REPAIR EQUIPMENT

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT COMMON HANDTOOLS
SELECT SPECIAL TOOLS
SELECT ABRASIVE PAPER
SELECT WORKPIECE HOLDING DEVICES
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
INTERPRET GAGES OR METERS
SELECT CUTTERS/BLADES
L0325 INTERPRET SPECIFICATIONS FOR AIRCRAFT TUBING ASSEMBLIES
L0328 SELECT AIRCRAFT TUBING MATERIALS
SELECT TUBING
SELECT TUBING HARDWARE
RECOGNIZE CAPABILITIES/APPLICATIONS OF TUBING REPAIR EQUIPMENT
RECOGNIZE TYPES/APPLICATIONS OF TUBING REPAIR SYSTEMS
RECOGNIZE CAPABILITIES/APPLICATIONS OF TUBE CUTTERS
SELECT DAMAGE REMOVAL TECHNIQUES
G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

L0319 CUT TUBING
L0322 FILE OR SAND TUBING

TASK #: 00390

INSPECT FOR DEFECTIVE SEALS (N0351)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
COMPRESSED AIR SOURCE
100 PSI AIR NOZZLE
PENCIL ERASER

REFERENCES:

APPLICABLE AIRCRAFT STRUCTURES T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	N0351	3.05	19	20	22	27	4.61	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

CLEAN AREA OF SEAL TO BE INSPECTED
INSPECT SEAL
- SELECT METHOD FOR SPECIFIC APPLICATION
- APPLY COMPRESSED AIR
- RUB WITH PENCIL ERASER
- INSPECT VISUALLY FOR DEFECTS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE AIR NOZZLE

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
SELECT COMMON HANDTOOLS

TASK #: 00400
APPLY FASTENER SEALS (N0343)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
SOLVENT
SEALANT

REFERENCES:

APPLICABLE AIRCRAFT STRUCTURES T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	N0343	4.62	44	46	47	45	4.14	15
427X5	N0352	4.76	62	65	67	54	4.30	17
427X5	N0353	4.76	57	61	65	50	4.40	17

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

N0353 PREPARE SURFACES FOR SEALANT APPLICATION
N0352 PREPARE SEALANT COMPOUNDS
APPLY SEALANT TO FASTENER
INSTALL FASTENER
INSPECT FASTENER

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
APPLY SOLVENTS
APPLY SEALANTS
APPLY PROTECTIVE COATINGS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
SELECT COMMON HANDTOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT COMMON HARDWARE
SELECT COMMON FASTENERS
SELECT SPECIAL FASTENERS
SELECT WEIGHT MEASURING SCALES
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
SELECT SOLVENTS
SELECT SEALANTS

TASK #: 00410
APPLY FILLET SEALS (N0344)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
FAIRING TOOLS
SEALING GUN
WIRE BRUSH
ROTARY FILE
ABRASIVE PAPER
WEIGHT MEASURING SCALE
MASKING MATERIALS
SOLVENT
PARTING AGENT

REFERENCES:

APPLICABLE AIRCRAFT STRUCTURES T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	N0344	4.45	49	52	54	46	4.26	17
427X5	N0352	4.76	62	65	67	54	4.30	17
427X5	N0353	4.76	57	61	65	50	4.40	17

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

N0353 PREPARE SURFACES FOR SEALANT APPLICATION
N0352 PREPARE SEALANT COMPOUNDS
LOAD SEALANT INTO SEALING GUN
APPLY BEAD OF SEALANT TO AREA
SMOOTH SEALANT USING FAIRING TOOL
ALLOW TO CURE
INSPECT SEALED AREA

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE PNEUMATIC SEALANT GUNS
USE WIRE BRUSHES/WHEELS
USE ROTARY FILES/FLAP WHEELS
USE ABRASIVE PAPER
OPERATE WEIGHT MEASURING SCALES
APPLY MASKING MATERIALS
APPLY PARTING AGENTS
APPLY SOLVENTS
APPLY SEALANTS
APPLY PROTECTIVE COATINGS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
SELECT COMMON HANDTOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT WIRE BRUSHES/WHEELS
SELECT ROTARY FILES/FLAP WHEELS
SELECT ABRASIVE PAPER
SELECT WEIGHT MEASURING SCALES
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
SELECT SOLVENTS
SELECT SEALANTS
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT MASKING MATERIALS
SELECT PARTING AGENTS

TASK #: 00420
APPLY INJECTION SEALS (N0345)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
PNEUMATIC DRILL
DRILL BITS
SEALING GUN
WEIGHT MEASURING SCALE
MASKING MATERIALS
SOLVENT
SEALANT

REFERENCES:

APPLICABLE AIRCRAFT STRUCTURES T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5	N0345	4.22	27	30	31	24	4.52	15
427X5	N0352	4.76	62	65	67	54	4.30	17
427X5	N0353	4.76	57	61	65	50	4.40	17

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

DRILL INJECTION HOLES
N0353 PREPARE SURFACES FOR SEALANT APPLICATION
N0352 PREPARE SEALANT COMPOUNDS
LOAD SEALANT INTO SEALING GUN
INJECT SEALANT INTO HOLES
ALLOW TO CURE
INSPECT AREA

SKILLS

- USE PERSONAL PROTECTIVE EQUIPMENT
- USE COMMON HANDTOOLS
- USE PNEUMATIC SEALANT GUNS
- USE PNEUMATIC DRILLS
- OPERATE WEIGHT MEASURING SCALES
- APPLY MASKING MATERIALS
- APPLY SOLVENTS
- APPLY SEALANTS

KNOWLEDGE

- INTERPRET TECHNICAL DATA
- LOCATE TECHNICAL DATA
- RECALL SHOP SAFETY PRECAUTIONS
- RECALL FLIGHTLINE SAFETY PRECAUTIONS
- RECALL CHEMICAL SAFETY PRECAUTIONS
- RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
- SELECT COMMON HANDTOOLS
- SELECT PNEUMATIC HANDTOOLS
- SELECT WEIGHT MEASURING SCALES
- PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
- RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
- SELECT DRILL BITS
- SELECT SOLVENTS
- SELECT SEALANTS
- INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
- SELECT MASKING MATERIALS

TASK #: 00430
APPLY FAYING SURFACE SEALS

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
FAIRING TOOLS
WIRE BRUSH
ABRASIVE PAPER
WEIGHT MEASURING SCALE
MASKING MATERIALS
SOLVENT
PARTING AGENT
FIBER OR WOODEN WEDGE

REFERENCES:

APPLICABLE AIRCRAFT STRUCTURES T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5	N0346	4.64	49	52	54	44	4.29	17
427X5	N0348	3.09	24	25	25	20	4.71	2
427X5	N0352	4.76	62	65	67	54	4.30	17
427X5	N0353	4.76	57	61	65	50	4.40	17

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

N0353 PREPARE SURFACES FOR SEALANT APPLICATION
N0352 PREPARE SEALANT COMPOUNDS
APPLY SEALANT EVENLY TO ALL FAYING (CONTACTING) SURFACES
ASSEMBLE PARTS
INSTALL FASTENERS
CLEAN UP EXCESS SEALANT USING WEDGE
ALLOW TO CURE
INSPECT AREA

SKILLS

- USE PERSONAL PROTECTIVE EQUIPMENT
- USE COMMON HANDTOOLS
- USE WIRE BRUSHES/WHEELS
- USE ABRASIVE PAPER
- OPERATE WEIGHT MEASURING SCALES
- APPLY MASKING MATERIALS
- APPLY PARTING AGENTS
- APPLY SOLVENTS
- APPLY SEALANTS
- APPLY PROTECTIVE COATINGS

KNOWLEDGE

- INTERPRET TECHNICAL DATA
- LOCATE TECHNICAL DATA
- RECALL SHOP SAFETY PRECAUTIONS
- RECALL FLIGHTLINE SAFETY PRECAUTIONS
- RECALL CHEMICAL SAFETY PRECAUTIONS
- RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
- SELECT COMMON HANDTOOLS
- SELECT WIRE BRUSHES/WHEELS
- SELECT ABRASIVE PAPER
- SELECT WEIGHT MEASURING SCALES
- PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
- RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
- SELECT SOLVENTS
- SELECT SEALANTS
- INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
- SELECT MASKING MATERIALS
- SELECT PARTING AGENTS
- SELECT PROTECTIVE COATINGS

RELATED TASKS

- N0346 APPLY PERMANENT FAYING SURFACE SEALS
- N0348 APPLY REMOVABLE FAYING SURFACE SEALS

TASK #: 00440

APPLY PROTECTIVE COATING OR TOP COATING TO SEALED AREAS (N0347)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
WEIGHT MEASURING SCALE
MASKING MATERIALS
SOLVENT
PARTING AGENT
PAINT BRUSH

REFERENCES:

T.O. 1-1-3 (INSPECTION AND REPAIR OF AIRCRAFT INTEGRAL TANKS AND FUEL CELLS)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5 N0347		3.83	32	34	35	27	4.25	15
427X5 N0352		4.76	62	65	67	54	4.30	17
427X5 N0353		4.76	57	61	65	50	4.40	17

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

N0353 PREPARE SURFACES FOR SEALANT APPLICATION
N0352 PREPARE SEALANT COMPOUNDS
APPLY COATING
- SELECT METHOD FOR SPECIFIC APPLICATION (SPRAY, BRUSH, DIP)
ALLOW TO CURE
INSPECT AREA

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
OPERATE WEIGHT MEASURING SCALES
APPLY MASKING MATERIALS
APPLY PARTING AGENTS
APPLY SOLVENTS
APPLY SEALANTS
APPLY PROTECTIVE COATINGS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
SELECT COMMON HANDTOOLS
SELECT WEIGHT MEASURING SCALES
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
SELECT SOLVENTS
SELECT SEALANTS
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT MASKING MATERIALS
SELECT PARTING AGENTS
SELECT PROTECTIVE COATINGS

TASK #: 00450
APPLY WINDOW SEALS (N0350)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
FAIRING TOOLS
WIRE BRUSH
ABRASIVE PAPER
WEIGHT MEASURING SCALE
MASKING MATERIALS
SOLVENT
PARTING AGENT
SEALANT GUN

REFERENCES:

T.O. 1-1-3 (INSPECTION AND REPAIR OF AIRCRAFT INTEGRAL TANKS AND FUEL CELLS)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5	N0350	2.28	13	12	12	10	4.72	2
427X5	N0352	4.76	62	65	67	54	4.30	17
427X5	N0353	4.76	57	61	65	50	4.40	17

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

N0353 PREPARE SURFACES FOR SEALANT APPLICATION
APPLY TAPE (APPROXIMATELY 1/8 IN FROM EDGE OF WINDOW CASING)
N0352 PREPARE SEALANT COMPOUNDS
APPLY SEALANT TO CASING
INSTALL CASING
SMOOTH SEALANT USING FAIRING TOOL
REMOVE TAPE
ALLOW TO CURE
INSPECT AREA

SKILLS

- USE PERSONAL PROTECTIVE EQUIPMENT
- USE COMMON HANDTOOLS
- USE PNEUMATIC SEALANT GUNS
- USE WIRE BRUSHES/WHEELS
- USE ABRASIVE PAPER
- OPERATE WEIGHT MEASURING SCALES
- APPLY MASKING MATERIALS
- APPLY PARTING AGENTS
- APPLY SOLVENTS
- APPLY SEALANTS

KNOWLEDGE

- INTERPRET TECHNICAL DATA
- LOCATE TECHNICAL DATA
- RECALL SHOP SAFETY PRECAUTIONS
- RECALL FLIGHTLINE SAFETY PRECAUTIONS
- RECALL CHEMICAL SAFETY PRECAUTIONS
- RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
- SELECT COMMON HANDTOOLS
- SELECT PNEUMATIC HANDTOOLS
- SELECT WIRE BRUSHES/WHEELS
- SELECT ABRASIVE PAPER
- SELECT WEIGHT MEASURING SCALES
- PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
- RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
- SELECT SOLVENTS
- SELECT SEALANTS
- INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
- SELECT MASKING MATERIALS
- SELECT PARTING AGENTS

TASK #: 00460
APPLY RUBBER SEALS (N0349)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
CLAMPS
PNEUMATIC DRILL
DRILL BITS
CLECO FASTENERS
PNEUMATIC RIVET GUN
VACUUM CLEANER
TEMPLATE
DIMPLING MACHINE
CONTOUR CUTTING MACHINE
METAL FORMING EQUIPMENT

REFERENCES:

APPLICABLE AIRCRAFT STRUCTURES T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5 N0349		2.62	32	32	32	24	4.35	14
427X5 G0199		6.41	52	57	61	69	6.00	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

CUT SHIM MATERIAL TO MATCH WIDTH OF FLANGE ON SEAL AND LENGTH OF
PANEL
ALIGN SEAL AND SHIM
PREPARE FASTENER HOLES
SECURE PARTS WITH CLECO FASTENERS
INSTALL FASTENERS
INSPECT FASTENERS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE PNEUMATIC DRILLS
USE PNEUMATIC RIVET GUNS
USE STANDARD MEASURING INSTRUMENTS
USE MACHINE GUARDS
USE WORKPIECE HOLDING DEVICES
USE VACUUM CLEANERS
USE TEMPLATES
PREPARE FASTENER HOLES
USE DIMPLING MACHINES
OPERATE CONTOUR CUTTING MACHINES
OPERATE METAL FORMING MACHINES

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT COMMON HANDTOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT CLAMPS
SELECT WORKPIECE HOLDING DEVICES
SELECT COMMON HARDWARE
SELECT COMMON FASTENERS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT CUTTERS/BLADES
SELECT DRILL BITS
RECOGNIZE TYPES/USES OF DIMPLING MACHINES
RECOGNIZE CAPABILITIES/APPLICATIONS OF CONTOUR CUTTING MACHINES
RECOGNIZE CAPABILITIES/APPLICATIONS OF METAL FORMING MACHINES
G0199 INTERPRET DRAWINGS AND BLUEPRINTS

TASK #: 00470
ROTARY PEEN METAL SURFACES (K0494)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
FLAP WHEEL (MIL-W-81840)
PNEUMATIC DRILL OR HIGH SPEED GRINDER
AIR REGULATOR
TACHOMETER
ALMEN STRIPS/STRIP HOLDER
MASKING MATERIALS

REFERENCES:

MIL-R-81841 (AS) (ROTARY FLAP PEENING OF METAL PARTS)
T.O. 1-1-2 (CORROSION PREVENTION AND CONTROL FOR AEROSPACE EQUIPMENT)
MIL-W-80840 (WHEELS, PEENING ROTARY FLAP)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	K0494	2.04	1	1	1	3	6.50	2
427X5	G0199	6.41	52	57	61	69	6.00	18
427X1	K0495	2.02	2	1	1	2	6.71	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

REMOVE SURFACE COATING AND CLEAN SURFACE
MASK ALL AREAS REQUIRING CRITICAL SURFACES
SET-UP FOR ROTARY PEENING
- SELECT FLAP WHEEL
- DETERMINE REQUIRED INTENSITY USING ALMEN STRIP
- CONVERT INTENSITY USING APPLICABLE CHARTS
- DETERMINE RPM USING APPLICABLE CHARTS
- PLOT SATURATION CURVE TO SELECT ACTUAL INTENSITY
- ADJUST RPM (IF REQUIRED)
PEEN PART
PERFORM VISUAL INSPECTION FOR COVERAGE
REPEEN (IF REQUIRED)

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE ALMEN STRIPS/STRIP HOLDER
USE PNEUMATIC DRILLS
OPERATE HAND-HELD GRINDERS
USE ROTARY FILES/FLAP WHEELS
USE TACHOMETER
APPLY MASKING MATERIALS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT COMMON HANDTOOLS
SELECT SPECIAL TOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT ROTARY FILES/FLAP WHEELS
SELECT WORKPIECE HOLDING DEVICES
SELECT PRECISION MEASURING INSTRUMENTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
INTERPRET GAGES OR METERS
SELECT MASKING MATERIALS

G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

K0495 ROTARY PEEN STRESSED SURFACES

TASK #: 00480

SHOT PEEN METAL SURFACES (K0498)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
VACUUM BLASTER
STATIONARY ABRASIVE BLASTER
SHOT
ALMEN STRIPS/STRIP HOLDER

REFERENCES:

T.O. 1-1-2 (CORROSION PREVENTION AND CONTROL FOR AEROSPACE EQUIPMENT)
MIL-S-13165B (SHOT PEENING OF METAL PARTS)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	K0498	2.67	3	3	3	5	6.11	7
427X5	G0199	6.41	52	57	61	69	6.00	18
427X1	K0499	2.73	2	2	3	3	6.66	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

REMOVE SURFACE COATING AND CLEAN SURFACE
SET-UP FOR SHOT PEENING
- DETERMINE REQUIRED INTENSITY
- SELECT ALMEN STRIP
- SELECT SHOT
- LOAD SHOT INTO BLASTING EQUIPMENT AND SET PSI
- PLOT SATURATION CURVE TO DETERMINE ACTUAL INTENSITY
- ADJUST PSI (IF REQUIRED)
PEEN PART
PERFORM VISUAL INSPECTION FOR COVERAGE
REPEEN (IF REQUIRED)

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE ALMEN STRIPS/STRIP HOLDER
USE ALMEN STRIPS
USE WORKPIECE HOLDING DEVICES
USE VACUUM BLASTERS
OPERATE ABRASIVE BLASTERS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT COMMON HANDTOOLS
SELECT SPECIAL TOOLS
SELECT WORKPIECE HOLDING DEVICES
SELECT PRECISION MEASURING INSTRUMENTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
INTERPRET GAGES OR METERS
G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

K0499 SHOT PEEN STRESSED SURFACES

TASK #: 00490

BALANCE AIRCRAFT CONTROL SURFACES

EQUIPMENT:

COMMON HANDTOOLS
SCALES
BALANCING SUPPORT EQUIPMENT
TOOL STAND
ADJUSTABLE SUPPORT STAND
BALANCING WEIGHTS
WEIGHT REMOVAL TOOL
36 INCH RULE

REFERENCES:

APPLICABLE AIRCRAFT STRUCTURES T.O.

CONDITIONS CUES:

CONDITION: AREA MUST BE FREE OF DRAFTS AND/OR WINDY CONDITIONS
CONDITION: IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	M0333	3.33	7	7	7	10	7.05	7
427X5	M0334	3.21	4	4	4	8	6.88	7
427X5	M0335	3.38	11	13	14	18	6.77	7
427X5	M0336	3.21	8	9	9	10	6.72	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT FOR WATER ENTRAPMENT AND DRAIN (IF REQUIRED)
WEIGH ASSEMBLY AND RECORD WEIGHT
WEIGH ADJUSTABLE SUPPORT STAND AND RECORD WEIGHT
INSURE CORRECT CONFIGURATION OF BALANCING EQUIPMENT (MUST BE
MAINTAINED THROUGHOUT BALANCING OPERATION)
ATTACH MOUNTING BRACKETS TO SUPPORT STAND
MOUNT ASSEMBLY ON SUPPORT STAND
MOUNT ADJUSTABLE SUPPORT STAND ON SCALE
LOCATE MOMENT ARM FROM SPECIFIED POINT
ADJUST SUPPORT STAND TO INSURE THAT CHORD PLANE IS IN HORIZONTAL
POSITION

CHECK FOR BALANCED/UNBALANCED CONDITION

- ADJUST WEIGHT SCALE UNTIL A BALANCED CONDITION IS OBTAINED
- DETERMINE AND RECORD WEIGHT REACTION
- DETERMINE CENTER OF GRAVITY USING APPROPRIATE FORMULA
- COMPUTE BALANCE WEIGHT USING APPROPRIATE FORMULA (IF THE CENTER OF GRAVITY EXCEEDS SPECIFIED LIMITS)

ADD WEIGHT (IF REQUIRED)

CHECK BALANCING FOR ACCURACY (REPEAT ABOVE STEPS IF REQUIRED)

SKILLS

USE COMMON HANDTOOLS

USE STANDARD MEASURING INSTRUMENTS

OPERATE WEIGHT MEASURING SCALES

USE WORKPIECE HOLDING DEVICES

USE CONTROL SURFACE BALANCING EQUIPMENT/FIXTURES

KNOWLEDGE

INTERPRET TECHNICAL DATA

LOCATE TECHNICAL DATA

RECALL SHOP SAFETY PRECAUTIONS

SELECT COMMON HANDTOOLS

SELECT WEIGHT MEASURING SCALES

PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)

INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)

INTERPRET GAGES OR METERS

SELECT CONTROL SURFACE BALANCING EQUIPMENT/FIXTURES

RELATED TASKS

- M0333 BALANCE CONTROL SURFACES USING THE CALCULATION METHOD
- M0334 BALANCE CONTROL SURFACES USING THE COMPONENT METHOD
- M0335 BALANCE CONTROL SURFACES USING THE SCALE METHOD
- M0336 BALANCE CONTROL SURFACES USING THE TRIAL WEIGHT METHOD

TASK #: 00500
CLEAN PLASTICS (J0275)

EQUIPMENT:

PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
MILD SOAP
WATER
SOFT GRIT-FREE CLOTH

REFERENCES:

T.O. 1-1A-1 (GENERAL MANUAL FOR STRUCTURAL REPAIR)

CONDITIONS CUES:

CONDITION: IN SHOP OR HANGER

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	J0275	3.10	18	17	18	17	4.07	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

RUN COLD WATER OVER PART
APPLY MILD SOAP
CLEAN WITH SOFT GRIT-FREE CLOTH OR BARE HAND
ALLOW TO DRY

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF PLASTICS

TASK #: 00510

STORE TRANSPARENT PLASTICS IN PROPER ENVIRONMENT (J0299)

EQUIPMENT:

PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
STORAGE BIN
SUPPORT RACKS
PROTECTIVE COATING

REFERENCES:

T.O. 1-1A-12 (MAINTENANCE AND REPAIR OF TRANSPARENT PLASTICS)

CONDITIONS CUES:

CONDITION: STORAGE AREA MUST BE COOL, DRY, AND FREE OF SHARP
EDGES/PROTRUSIONS

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	J0299	2.43	14	13	14	15	3.85	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT PART FOR SERVICEABILITY
APPLY PROTECTIVE COATING (IF REQUIRED)
PLACE IN STORAGE AREA

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
APPLY PROTECTIVE COATINGS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF PLASTICS
SELECT PROTECTIVE COATINGS

TASK #: 00520
POLISH OUT SURFACE SCRATCHES

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
OPTICAL MICROMETER
ABRASIVE PAPER
CLEANING MATERIALS
POLISHING MATERIALS
MASKING MATERIALS

REFERENCES:

T.O. 1-1A-1 (GENERAL MANUAL FOR STRUCTURAL REPAIR)

CONDITIONS CUES:

CONDITION: IN SHOP OR HANGER
CONDITION: ADEQUATE LIGHTING REQUIRED

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	J0292	3.31	13	15	17	20	5.13	7
427X5	J0294	3.52	13	15	16	16	5.94	7
427X5	J0295	2.50	6	6	5	5	6.11	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

J0292 CLEAN PART
MEASURE SURFACE SCRATCHES
POLISH OUT SCRATCHES
INSPECT PART (REPEAT ABOVE STEPS IF REQUIRED)

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE ABRASIVE PAPER
USE STANDARD MEASURING INSTRUMENTS
USE OPTICAL MICROMETER
APPLY MASKING MATERIALS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF PLASTICS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE
MATERIALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED
STRUCTURES
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS
MATERIALS
SELECT COMMON HANDTOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT ABRASIVE PAPER
SELECT WORKPIECE HOLDING DEVICES
SELECT PRECISION MEASURING INSTRUMENTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT DAMAGE REMOVAL TECHNIQUES

RELATED TASKS

J0294 POLISH OUT SURFACE SCRATCHES BY HAND
J0295 POLISH OUT SURFACE SCRATCHES WITH POWER SANDERS

TASK #: 00530
CUT PLASTICS

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
CLAMPS
CONTOUR CUTTING MACHINE
HAND HELD POWER SAW
MASKING MATERIALS

REFERENCES:

T.O. 1-1A-1 (GENERAL MANUAL FOR STRUCTURAL REPAIR)

CONDITIONS CUES:

CONDITION: IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	J0277	3.02	20	22	23	21	4.05	2
427X5	J0278	3.67	36	40	43	37	4.11	15
427X5	J0279	1.74	7	7	7	6	4.88	2
427X5	J0280	1.60	11	13	13	9	4.70	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

LOCATE AND MARK CUT LINES ON MATERIAL
SECURE PART (IF REQUIRED)
CUT MATERIAL
- SELECT METHOD FOR SPECIFIC APPLICATION
J0277 CUT PLASTICS USING HAND SAWS
J0278 CUT PLASTIC USING POWER SAWS
J0279 CUT PLASTIC WITH AUTOMATIC METAL SHEARING DEVICE
J0280 CUT PLASTIC WITH HAND-TYPE TIN SHEARS
SMOOTH EDGE OF MATERIAL

SKILLS

- USE PERSONAL PROTECTIVE EQUIPMENT
- USE COMMON HANDTOOLS
- USE PNEUMATIC SAWS
- USE STANDARD MEASURING INSTRUMENTS
- USE MACHINE GUARDS
- USE ABRASIVE PAPER
- USE WORKPIECE HOLDING DEVICES
- APPLY MASKING MATERIALS
- OPERATE CONTOUR CUTTING MACHINES

KNOWLEDGE

- INTERPRET TECHNICAL DATA
- LOCATE TECHNICAL DATA
- RECALL SHOP SAFETY PRECAUTIONS
- RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
- RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF PLASTICS
- SELECT COMMON HANDTOOLS
- SELECT PNEUMATIC HANDTOOLS
- SELECT CLAMPS
- SELECT WORKPIECE HOLDING DEVICES
- SELECT CUTTERS/BLADES
- SELECT ABRASIVE PAPER
- RECOGNIZE CAPABILITIES/APPLICATIONS OF CONTOUR CUTTING MACHINES

G0199 INTERPRET DRAWINGS AND BLUEPRINTS

TASK #: 00540

RESEARCH AIRCRAFT STRUCTURAL REPAIR TECHNICAL ORDERS FOR EXACT REPAIR
PROCEDURES ON BONDED STRUCTURES

REFERENCES:

APPLICABLE SYSTEM TECHNICAL ORDER

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	G0214	6.60	51	56	62	61	5.06	18
427X5	I0263	4.43	19	19	19	16	5.31	7
427X1	S0853	1.06	1	2	1	4	5.95	2
427X1	S0854	.98	1	1	1	3	5.90	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

LOCATE DAMAGE ON AIRCRAFT

OBTAIN SYSTEMT T.O.

MAKE SURE T.O. IS CURRENT (CHECK "A" PAGE)

REVIEW INTRODUCTION/HOW TO USE SECTION OF T.O.

LOCATE THE APPLICABLE SECTION OF THE T.O. BASED ON DAMAGE

LOCATION

LOCATE SPECIFIC REPAIR AREA IN T.O.

- DETERMINE DAMAGE LIMITATIONS FOR REPAIR AREA

- DETERMINE TYPE OF MATERIAL, SKIN THICKNESS, AND TYPE OF CORE

EVALUATE DAMAGE

LOCATE REPAIR PROCEDURE

NOTE ALL SAFETY PRECAUTIONS

REVIEW REPAIR INSTRUCTIONS PRIOR TO START OF REPAIR

KNOWLEDGE

INTERPRET TECHNICAL DATA

LOCATE TECHNICAL DATA

RELATED TASKS

G0214 RESEARCH -3 TECHNICAL ORDER FOR EXACT REPAIR PROCEDURES ON METAL
BONDED HONEYCOMB STRUCTURES
I0263 RESEARCH -3 TECHNICAL ORDER FOR EXACT REPAIR PROCEDURES ON
ADVANCED COMPOSITES
S0853 RESEARCH -3 TECHNICAL ORDER FOR EXACT REPAIR PROCEDURES ON
ADVANCEDCOMPOSITES
S0854 RESEARCH -3 TECHNICAL ORDER FOR EXACT REPAIR PROCEDURES ON
HONEYCOMB CORES

TASK #: 00550

INSPECT AND EVALUATE METAL BONDED AIRCRAFT STRUCTURES

EQUIPMENT:

COMMON HANDTOOLS

TAP HAMMER

MAGNIFYING GLASS

ABRASIVE PAPER

REFERENCES:

MIL-HBK 337 (ADHESIVE BONDED AEROSPACE STRUCTURE REPAIR)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	G0191	5.05	32	39	48	60	5.63	12
427X5	G0194	4.90	52	60	68	68	4.19	17
427X1	S0832	1.04	0	2	4	6	5.59	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

PERFORM VISUAL INSPECTION OF STRUCTURE FOR DAMAGE

PERFORM TAP TEST USING COIN OR TAP HAMMER METHOD

MARK LOCATION

CLASSIFY DAMAGE

COORDINATE WITH NON-DESTRUCTIVE INSPECTION (NDI) FOR
CONFIRMATION AS APPLICABLE

SKILLS

USE COMMON HANDTOOLS

USE TAP HAMMER

USE MAGNIFYING GLASS

USE STANDARD MEASURING INSTRUMENTS

USE ABRASIVE PAPER

KNOWLEDGE

INTERPRET TECHNICAL DATA

LOCATE TECHNICAL DATA

RECALL SHOP SAFETY PRECAUTIONS

RECALL FLIGHTLINE SAFETY PRECAUTIONS

RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS

RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED
STRUCTURES

SELECT COMMON HANDTOOLS

SELECT ABRASIVE PAPER

PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)

INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)

RELATED TASKS

G0191 INSPECT AND CLASSIFY METAL BONDED HONEYCOMB CORE DAMAGE

G0194 INSPECT REPAIRED OR DAMAGED AREA USING HAMMER TAP OR COIN TAP
METHOD

S0832 COIN TAP HONEYCOMB CORES TO SELECT DEFECTS

TASK #: 00560

INSPECT AND EVALUATE FIBERGLASS CONSTRUCTED AIRCRAFT STRUCTURES

EQUIPMENT:

COMMON HANDTOOLS
STRONG LIGHT SOURCE
TAP HAMMER
ABRASIVE PAPER
MAGNIFYING GLASS

REFERENCES:

T.O. 1-1-24 (MAINTENANCE, REPAIR, AND ELECTRICAL REQUIREMENTS FOR
FIBERGLASS AIRBORNE RADOMES)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5	G0194	4.90	52	60	68	68	4.19	17
427X5	H0234	5.29	29	38	47	62	5.43	12
427X5	H0235	5.09	33	41	49	62	5.29	12
427X5	H0236	5.29	40	46	54	63	5.26	12
427X1	S0831	1.06	0	3	4	9	5.40	2
427X1	S0832	1.04	0	2	4	6	5.59	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

PERFORM VISUAL INSPECTION OF STRUCTURE FOR DAMAGE
PERFORM TAP TEST USING COIN OR TAP HAMMER METHOD
USE STRONG LIGHT SOURCE TO DETECT HIDDEN INTERNAL DEFECTS
MARK LOCATION OF INDICATED DAMAGE
CLASSIFY DAMAGE
COORDINATE WITH NDI FOR CONFIRMATION AS REQUIRED

SKILLS

USE COMMON HANDTOOLS
USE TAP HAMMER
USE MAGNIFYING GLASS
USE STANDARD MEASURING INSTRUMENTS
USE ABRASIVE PAPER

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS
MATERIALS
SELECT COMMON HANDTOOLS
SELECT ABRASIVE PAPER
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)

RELATED TASKS

G0194 INSPECT REPAIRED OR DAMAGED AREA USING HAMMER TAP OR COIN TAP
METHOD
H0234 INSPECT AND IDENTIFY FIBERGLASS HONEYCOMB CORE DAMAGE
H0235 INSPECT AND IDENTIFY FIBERGLASS LAMINATED DAMAGE
H0236 INSPECT FIBERGLASS REPAIRS FOR PROPER BOND
S0831 COIN TAP FIBERGLASS TO SELECT DEFECTS
S0832 COIN TAP HONEYCOMB CORES TO SELECT DEFECTS

TASK #: 00570

INSPECT AND EVALUATE ADVANCED COMPOSITE AIRCRAFT STRUCTURES

EQUIPMENT:

COMMON HANDTOOLS

TAP HAMMER

ABRASIVE PAPER

MAGNIFYING GLASS

REFERENCES:

T.O. 1-1-690 (GENERAL ADVANCED COMPOSITE REPAIR PROCESSES MANUAL)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	G0194	4.90	52	60	68	68	4.19	17
427X5	I0249	3.00	8	9	11	11	5.29	2
427X5	I0256	3.69	7	8	9	13	6.48	7
427X1	S0829	1.43	2	2	2	5	6.78	2
427X1	S0830	.96	0	2	3	6	5.76	2
427X1	S0832	1.04	0	2	4	6	5.59	2
427X1	S0833	1.10	2	3	3	5	5.51	2
427X1	S0842	.55	0	1	2	1	6.43	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

I0249 COORDINATE DAMAGE INSPECTION WITH NDI SECTION FOR ADVANCED
COMPOSITE REPAIR
PERFORM VISUAL INSPECTION OF STRUCTURE FOR DAMAGE
PERFORM TAP TEST USING COIN OR TAP HAMMER METHOD
MARK LOCATION OF INDICATED DAMAGE
EVALUATE DAMAGE
CLASSIFY DAMAGE

SKILLS

USE COMMON HANDTOOLS

USE TAP HAMMER

USE MAGNIFYING GLASS

USE STANDARD MEASURING INSTRUMENTS

USE ABRASIVE PAPER

KNOWLEDGE

INTERPRET TECHNICAL DATA

LOCATE TECHNICAL DATA

RECALL SHOP SAFETY PRECAUTIONS

RECALL FLIGHTLINE SAFETY PRECAUTIONS

RECALL AIRBORNE FIBER SAFETY PRECAUTIONS

RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING

RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE MATERIALS

SELECT COMMON HANDTOOLS

SELECT ABRASIVE PAPER

PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)

INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)

RELATED TASKS

- G0194 INSPECT REPAIRED OR DAMAGED AREA USING HAMMER TAP OR COIN TAP METHOD
- I0256 PERFORM EVALUATION AND CLASSIFICATION OF DAMAGED COMPOSITE AREAS
- S0829 CLASSIFY DAMAGED COMPOSITE AREAS
- S0830 COIN TAP COMPOSITE SURFACES TO SELECT DEFECTS
- S0832 COIN TAP HONEYCOMB CORES TO SELECT DEFECTS
- S0833 COORDINATE DAMAGE INSPECTION WITH NDI SECTION FOR ADVANCED COMPOSITE REPAIR
- S0842 PERFORM EVALUATION AND CLASSIFICATION OF DAMAGED COMPOSITE AREAS

TASK #: 00580

REMOVE AND REPLACE COMPLETE BONDED STRUCTURES

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
PNEUMATIC DRILL
DRILL BITS
CLECO FASTENERS
PNEUMATIC RIVET GUN
ROTARY FILE
ABRASIVE PAPER
WEIGHT MEASURING SCALE
MASKING MATERIAL
PARTING AGENT
SOLVENT
SEALANT
PROTECTIVE COATING
VACUUM CLEANER
REAMER
TEMPLATE
ADHESIVE
LIQUID SHIM

REFERENCES:

T.O. 1-1-690 (GENERAL ADVANCED COMPOSITE REPAIR PROCESSES MANUAL)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	G0171	4.69	35	40	44	37	4.46	15
427X5	G0204	5.35	58	61	65	50	4.91	18
427X5	G0219	6.09	69	76	78	62	5.06	18
427X5	G0220	6.12	79	83	83	65	5.03	18
427X5	H0223	4.86	50	53	55	41	4.00	17
427X5	H0242	5.91	63	66	68	52	4.64	18
427X5	H0247	4.74	28	33	37	36	4.73	15
427X5	I0262	3.16	6	6	5	5	6.42	2
427X5	I0264	4.24	20	20	18	12	3.82	7
427X1	S0844	.47	1	0	0	0	6.55	2
427X1	S0852	.43	1	0	0	0	6.62	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

I0264 WEAR PROTECTIVE CLOTHING DURING COMPOSITE DAMAGE REPAIR
REMOVE EXISTING FASTENERS
BREAK SEAL WITH PUTTY KNIFE
REMOVE EXISTING LIQUID SHIM RESIDUE AND CLEAN UP SUB-STRUCTURE
TRIM AND FIT NEW COMPONENT
CLEAN ALL FAYING SURFACES
LAY DOWN PARTING BARRIER ON FAYING SURFACES (IF REQUIRED BY
SPECIFIC APPLICATION)
PREPARE LIQUID SHIM (IF REQUIRED BY SPECIFIC APPLICATION)
APPLY LIQUID SHIM
SET COMPONENT INTO PLACE
INSTALL FASTENERS
CLEAN UP EXCESS LIQUID SHIM USING SOLVENT
ALLOW TO CURE
INSPECT AREA FOR PROPER INSTALLATION OF COMPONENT AND FASTENERS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE PNEUMATIC DRILLS
USE PNEUMATIC RIVET GUNS
USE ROTARY FILES/FLAP WHEELS
USE ABRASIVE PAPER
USE STANDARD MEASURING INSTRUMENTS
OPERATE WEIGHT MEASURING SCALES
USE WORKPIECE HOLDING DEVICES
APPLY MASKING MATERIALS
APPLY PARTING AGENTS
APPLY SOLVENTS
APPLY SEALANTS
USE VACUUM CLEANERS
APPLY PROTECTIVE COATINGS
USE TEMPLATES
PREPARE FASTENER HOLES
USE REAMING TOOLS
APPLY LIQUID/PASTE ADHESIVES
APPLY LIQUID SHIMS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE
MATERIALS

RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED
STRUCTURES

RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS
MATERIALS

SELECT COMMON HANDTOOLS

SELECT PNEUMATIC HANDTOOLS

SELECT WORKPIECE HOLDING DEVICES

SELECT WEIGHT MEASURING SCALES

SELECT COMMON HARDWARE

SELECT COMMON FASTENERS

RECALL CHEMICAL COMPOUND MIXING TECHNIQUES

SELECT SOLVENTS

SELECT SEALANTS

PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)

INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)

SELECT MASKING MATERIALS

SELECT PARTING AGENTS

SELECT CUTTERS/BLADES

SELECT REAMERS

SELECT DRILL BITS

SELECT ADHESIVES

RECOGNIZE STORAGE/HANDLING PRECAUTIONS OF COMPOSITE REPAIR
MATERIALS

SELECT COMPOSITE TOOLING

RELATED TASKS

G0171 APPLY LIQUID ADHESIVES

G0204 PREPARE ADHESIVES

G0219 TRIM AND FIT DOORS

G0220 TRIM AND FIT PANELS

H0223 APPLY PARTING AGENTS SUCH AS POLYVINYL ALCOHOL (PVA)

H0242 PREPARE RESIN MIXTURES

H0247 REMOVE OR REPLACE FIBERGLASS CONSTRUCTED ASSEMBLIES

I0262 REMOVE OR REPLACE COMPLETE COMPOSITE STRUCTURES

S0844 REMOVE COMPLETED COMPOSITE STRUCTURES

S0852 REPLACE COMPLETE COMPOSITE STRUCTURES

TASK #: 00590

REMOVE DAMAGED AREAS OF AIRCRAFT BONDED STRUCTURES

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
PNEUMATIC DRILL
CLAMPS
HAND HELD GRINDER
ROUTER
ROUTER BITS
ROTARY FILE
HOLE SAWS
TEMPLATES
ABRASIVE PAPER
MASKING MATERIALS
SOLVENT
VACUUM CLEANER

REFERENCES:

T.O. 1-1-690 (GENERAL ADVANCED COMPOSITE REPAIR PROCESSES MANUAL)
MIL-HBK 337 (ADHESIVE BONDED AEROSPACE STRUCTURE REPAIR)
APPLICABLE AIRCRAFT STRUCTURES T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	G0209	5.07	47	53	54	42	4.77	18
427X5	H0243	5.07	39	42	44	36	4.94	12
427X5	H0244	5.19	28	32	35	32	5.25	12
427X5	H0245	5.02	35	36	39	32	5.03	12
427X5	I0258	2.98	5	5	5	7	6.17	2
427X5	I0259	3.64	19	19	16	10	5.99	7
427X5	I0260	3.43	5	5	5	6	6.10	7
427X5	I0261	3.59	6	6	6	7	6.06	7
427X5	I0264	4.24	20	20	18	12	3.82	7
427X1	S0845	.59	0	0	0	0	6.80	2
427X1	S0846	.47	0	1	1	0	6.90	2
427X1	S0847	.47	0	0	0	0	6.69	2
427X1	S0848	.47	0	0	0	0	6.70	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

CLEAN REPAIR AREA (IF REQUIRED)
SET UP DAMAGE REMOVAL EQUIPMENT
- DETERMINE TYPE OF MATERIAL/CONSTRUCTION OF COMPONENT
- SELECT TOOLING AND EQUIPMENT
- IDENTIFY SIZE OF AREA TO BE REMOVED
- SELECT TEMPLATE
- SECURE COMPONENT TO PREVENT VIBRATION (IF REQUIRED)
- SECURE TEMPLATE TO COMPONENT
ADJUST REMOVAL EQUIPMENT AS REQUIRED
10264 WEAR PROTECTIVE CLOTHING DURING COMPOSITE DAMAGE REPAIR
REMOVE DAMAGE
PERFORM VISUAL INSPECTION OF AREA TO INSURE ALL DAMAGE HAS BEEN
REMOVED

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE HOLE SAWS
USE PNEUMATIC DRILLS
OPERATE ROUTERS
OPERATE HAND-HELD GRINDERS
USE ROTARY FILES/FLAP WHEELS
USE ABRASIVE PAPER
USE STANDARD MEASURING INSTRUMENTS
USE WORKPIECE HOLDING DEVICES
APPLY MASKING MATERIALS
APPLY SOLVENTS
USE VACUUM CLEANERS
USE TEMPLATES

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE
MATERIALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED
STRUCTURES
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS
MATERIALS
SELECT COMMON HANDTOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT WORKPIECE HOLDING DEVICES
SELECT SOLVENTS

PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
 INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
 SELECT MASKING MATERIALS
 SELECT CUTTERS/BLADES
 SELECT REAMERS
 SELECT DRILL BITS
 SELECT DAMAGE REMOVAL TECHNIQUES
 RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF HONEYCOMB CORE
 MATERIALS
 SELECT COMPOSITE TOOLING
 G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

G0209 REMOVE DAMAGED AREAS WITH ROUTERS
 H0243 REMOVE DAMAGED FIBERGLASS HONEYCOMB CORE
 H0244 REMOVE DAMAGED PLIES FROM LAMINATED FIBERGLASS STRUCTURES USING
 STEP-JOINT METHOD
 H0245 REMOVE DAMAGED PLIES FROM LAMINATED FIBERGLASS STRUCTURES USING
 SCARF METHOD
 I0258 REMOVE DAMAGED COMPOSITE AREA WITH DIAMOND CUTTERS
 I0259 REMOVE DAMAGED COMPOSITE AREAS WITH HIGH SPEED ROUTERS
 I0260 REMOVE DAMAGED COMPOSITE MATERIALS WITH SPECIAL COMPOSITE
 MATERIALS REPAIR KIT
 I0261 REMOVE DAMAGED HONEYCOMB CORE WITH SPECIAL HONEYCOMB REPAIR KIT
 S0845 REMOVE DAMAGED COMPOSITE AREAS WITH DIAMOND CUTTERS
 S0846 REMOVE DAMAGED COMPOSITE AREAS WITH HIGH SPEED ROUTERS
 S0847 REMOVE DAMAGED COMPOSITE MATERIALS WITH SPECIAL COMPOSITE
 MATERIALS REPAIR KITS
 S0848 REMOVE DAMAGED HONEYCOMB CORE WITH SPECIAL HONEYCOMB STRUCTURE
 REPAIR KITS

TASK #: 00600

PERFORM SOLID LAMINATE REPAIRS (H0240)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
CLAMPS
PNEUMATIC DRILL
HOT BOND CURING EQUIPMENT
PYROMETER
VACUUM PUMP
HEAT BLANKETS
HEAT LAMP
ROUTER
ROUTER BITS
WEIGHT MEASURING SCALES
HOLE SAWS
TEMPLATES
CLEANING SOLVENT
ABRASIVE PAPER
PARTING AGENT
RESINS/ADHESIVES
PREPREG MATERIALS
VACUUM CLEANER

REFERENCES:

T.O. 1-1-690 (GENERAL ADVANCED COMPOSITE REPAIR PROCESSES MANUAL)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5	H0240	4.98	30	34	38	39	4.99	12
427X5	G0169	4.28	26	29	28	22	4.36	7
427X5	G0171	4.69	35	40	44	37	4.46	15
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	G0204	5.35	58	61	65	50	4.91	18
427X5	H0221	4.41	38	40	42	36	4.37	15
427X5	H0222	5.24	62	65	68	51	4.75	18
427X5	H0223	4.86	50	53	55	41	4.00	17
427X5	H0224	4.98	37	41	41	32	4.73	12
427X5	H0232	5.05	64	66	68	50	4.22	18
427X5	H0242	5.91	63	66	68	52	4.64	18
427X5	H0246	5.09	46	50	53	42	4.44	18
427X5	I0252	3.74	5	5	5	6	6.54	7
427X5	I0253	3.57	5	6	6	5	6.54	7
427X5	I0264	4.24	20	20	18	12	3.82	7
427X1	S0836	.53	0	0	0	0	6.70	2
427X1	S0837	.53	0	0	0	0	6.50	2
427X1	S0850	.43	0	0	0	0	6.79	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

I0264 INSPECT AND EVALUATE DAMAGE
WEAR PROTECTIVE CLOTHING DURING COMPOSITE DAMAGE REPAIR
CLEAN REPAIR AREA
SET UP FOR DAMAGE REMOVAL
- DETERMINE TYPE OF MATERIAL/CONSTRUCTION OF COMPONENT
- SELECT TOOLING AND EQUIPMENT
REMOVE DAMAGE
- SELECT METHOD FOR SPECIFIC APPLICATION
- REMOVE DAMAGED AREA USING STEP-JOINT METHOD
- REMOVE DAMAGED AREA USING SCARF METHOD
PERFORM VISUAL INSPECTION OF AREA TO INSURE ALL DAMAGE HAS BEEN
REMOVED
CLEAN REPAIR AREA
SET UP HOT BOND EQUIPMENT
VACUUM BAG REPAIR AREA
REMOVE MOISTURE FROM LAMINATE
PREPARE PATCH MATERIALS
DISCONNECT HEATING EQUIPMENT AND REMOVE VACUUM BAG
ALLOW TO COOL
APPLY RESINS/ADHESIVES
APPLY PATCH MATERIAL
SET UP HOT BOND EQUIPMENT FOR REPAIR CYCLE
VACUUM BAG REPAIR AREA
CURE REPAIR
DISCONNECT HEATING EQUIPMENT AND REMOVE VACUUM BAG

ALLOW TO COOL
INSPECT REPAIRED AREA
FINISH (SMOOTH) AND/OR SEAL REPAIR AND APPLY SURFACE COATING AS
REQUIRED

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE HOLE SAWS
USE PNEUMATIC DRILLS
OPERATE ROUTERS
USE ABRASIVE PAPER
USE STANDARD MEASURING INSTRUMENTS
USE PYROMETER
OPERATE WEIGHT MEASURING SCALES
USE WORKPIECE HOLDING DEVICES
APPLY MASKING MATERIALS
APPLY PARTING AGENTS
APPLY SOLVENTS
USE VACUUM CLEANERS
APPLY PROTECTIVE COATINGS
USE TEMPLATES
OPERATE HEATING/CURING EQUIPMENT
APPLY LIQUID/PASTE ADHESIVES
APPLY FOAM ADHESIVES
APPLY FILM ADHESIVES
APPLY RESINS
APPLY PREPEGS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE
MATERIALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS
MATERIALS
SELECT COMMON HANDTOOLS
SELECT SPECIAL TOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT ROTARY FILES/FLAP WHEELS
SELECT ABRASIVE PAPER
SELECT CLAMPS
SELECT WORKPIECE HOLDING DEVICES
SELECT WEIGHT MEASURING SCALES
RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
SELECT SOLVENTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)

INTERPRET GAGES OR METERS
 SELECT MASKING MATERIALS
 SELECT PARTING AGENTS
 SELECT PROTECTIVE COATINGS
 SELECT CUTTERS/BLADES
 SELECT DRILL BITS
 SELECT DAMAGE REMOVAL TECHNIQUES
 RECOGNIZE CAPABILITIES/APPLICATIONS OF HEATING/CURING EQUIPMENT
 SELECT ADHESIVES
 RECOGNIZE STORAGE/HANDLING PRECAUTIONS OF COMPOSITE REPAIR
 MATERIALS
 SELECT COMPOSITE TOOLING
 G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

G0169 APPLY FILM ADHESIVES
 G0171 APPLY LIQUID ADHESIVES
 G0204 PREPARE ADHESIVES
 H0221 APPLY DIRECT PRESSURE TO FIBERGLASS REPAIR SURFACES
 H0222 APPLY FIBERGLASS REPAIR MATERIALS TO DAMAGED AREAS
 H0223 APPLY PARTING AGENTS SUCH AS POLYVINYL ALCOHOL (PVA)
 H0224 APPLY VACUUM PRESSURE TO FIBERGLASS REPAIR SURFACES
 H0232 FINISH FIBERGLASS REPAIRS TO SMOOTH SURFACE
 H0242 PREPARE RESIN MIXTURES
 H0246 REMOVE EXCESSIVE RESIN AND AIR BUBBLES WITH SQUEEGEE OR PHENOLIC
 MATERIAL
 I0252 PATCH SURFACED DAMAGE AREA WITH GRAPHITE-EPOXY PRE-PREG FABRIC
 I0253 PATCH SURFACED DAMAGE AREA WITH TITANIUM FOIL PLATES
 I0836 PATCH SURFACED DAMAGE AREA WITH GRAPHITE-EPOXY PRE-PREG FABRIC
 I0837 PATCH SURFACED DAMAGE AREA WITH TITANIUM FOIL PATCH PLATES
 S0850 REPAIR DAMAGED COMPOSITE MATERIALS WITH SPECIAL COMPOSITE
 MATERIALS REPAIR KITS

TASK #: 00610

REMOVE MOISTURE FROM HONEYCOMB ASSEMBLIES (G0213)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
ABRASIVE PAPER
PNEUMATIC DRILL
DRILL BITS
HOT BOND CURING EQUIPMENT
PYROMETER
VACUUM PUMP
HEAT BLANKETS
HEAT LAMP
HAND HELD GRINDER
ROUTER
ROUTER BITS
HOLE SAWS
TEMPLATES
MASKING MATERIALS
VACUUM CLEANER

REFERENCES:

T.O. 1-1-690 (GENERAL ADVANCED COMPOSITE REPAIR PROCESSES MANUAL)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5	G0213	4.28	21	25	28	28	5.16	7
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	H0237	4.10	12	15	16	17	5.46	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

COORDINATE INSPECTION OF COMPONENT WITH NDI TO LOCATE MOISTURE
REMOVE SKIN OR DRILL VENT HOLES OVER AFFECTED AREA
SET UP HOT BOND EQUIPMENT
VACUUM BAG REPAIR AREA
APPLY HEAT AND VACUUM TO AREA
REMOVE MOISTURE FROM ASSEMBLY
DISCONNECT HEATING EQUIPMENT AND REMOVE VACUUM BAG

ALLOW TO COOL
RE-INSPECT AREA TO INSURE ALL MOISTURE HAS BEEN COMPLETELY
REMOVED
REPAIR AREA

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE HOLE SAWS
USE PNEUMATIC DRILLS
OPERATE ROUTERS
OPERATE HAND-HELD GRINDERS
USE ROTARY FILES/FLAP WHEELS
USE ABRASIVE PAPER
USE STANDARD MEASURING INSTRUMENTS
USE PYROMETER
OPERATE WEIGHT MEASURING SCALES
USE WORKPIECE HOLDING DEVICES
APPLY MASKING MATERIALS
USE VACUUM CLEANERS
USE TEMPLATES
OPERATE HEATING/CURING EQUIPMENT

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE
MATERIALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED
STRUCTURES
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS
MATERIALS
SELECT COMMON HANDTOOLS
SELECT SPECIAL TOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT ROTARY FILES/FLAP WHEELS
SELECT ABRASIVE PAPER
SELECT CLAMPS
SELECT WORKPIECE HOLDING DEVICES
SELECT WEIGHT MEASURING SCALES
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
INTERPRET GAGES OR METERS
SELECT MASKING MATERIALS
SELECT CUTTERS/BLADES
SELECT DRILL BITS
SELECT DAMAGE REMOVAL TECHNIQUES
RECOGNIZE CAPABILITIES/APPLICATIONS OF HEATING/CURING EQUIPMENT

RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF HONEYCOMB CORE
MATERIALS

G0199 SELECT COMPOSITE TOOLING
INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

H0237 MONITOR AND ADJUST CORRECT SURFACE TEMPERATURE OF REPAIR AREA
WITH HEAT MEASURING DEVICE

TASK #: 00620

REMOVE MOISTURE FROM ADVANCED COMPOSITE SOLID LAMINATES

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
HOT BOND CURING EQUIPMENT
PYROMETER
VACUUM PUMP
HEAT BLANKETS
HEAT LAMP
FIBERGLASS DRY CLOTH
PERFORATED RELEASE FILM
WEIGHT MEASURING SCALE
MASKING MATERIALS

REFERENCES:

T.O. 1-1-690 (GENERAL ADVANCED COMPOSITE REPAIR PROCESSES MANUAL)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	H0237	4.10	12	15	16	17	5.46	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT COMPONENT TO LOCATE MOISTURE
PLACE PERFORATED RELEASE FILM OVER AREA AND TAPE IN PLACE
POSITION THERMOCOUPLES
PLACE TWO LAYERS OF FIBERGLASS DRY CLOTH OVER AREA TO PROVIDE
MOISTURE PATH
POSITION HEAT BLANKET
VACUUM BAG AREA
HEAT SURFACE TO 150 DEGREES AT A RATE OF 10 DEGREES PER MINUTE
HOLD AT TEMPERATURE FOR APPROXIMATELY 48 HOURS
COOL AT A MAXIMUM RATE OF 10 DEGREES PER MINUTE
DISCONNECT HEATING EQUIPMENT AND REMOVE VACUUM BAG
RE-INSPECT AREA TO INSURE ALL MOISTURE HAS BEEN COMPLETELY REMOVED
REPAIR AREA

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE STANDARD MEASURING INSTRUMENTS
USE PYROMETER
OPERATE WEIGHT MEASURING SCALES
APPLY MASKING MATERIALS
OPERATE HEATING/CURING EQUIPMENT

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE MATERIALS
SELECT COMMON HANDTOOLS
SELECT WEIGHT MEASURING SCALES
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
INTERPRET GAGES OR METERS
SELECT MASKING MATERIALS
SELECT PARTING AGENTS
RECOGNIZE CAPABILITIES/APPLICATIONS OF HEATING/CURING EQUIPMENT
G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

H0237 MONITOR AND ADJUST CORRECT SURFACE TEMPERATURE OF REPAIR AREA WITH
HEAT MEASURING DEVICE

TASK #: 00630

PREPARE SURFACES FOR BONDING

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
CLEANING SOLVENT
CHEESE CLOTH
PNEUMATIC SANDER
ABRASIVE PAPER
VACUUM CLEANER
PASSIVATING SOLUTION

REFERENCES:

T.O. 1-1-690 (GENERAL ADVANCED COMPOSITE REPAIR PROCESSES MANUAL)
APPLICABLE SYSTEM TECHNICAL ORDER

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	G0172	4.88	75	76	75	51	3.90	17
427X5	G0173	2.22	4	5	5	5	5.41	2
427X5	H0225	4.93	75	76	76	55	3.51	17
427X5	H0226	4.88	33	35	36	33	3.60	15
427X5	I0264	4.24	20	20	18	12	3.82	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

I0264 ABRABE SURFACE USING 120 GRIT SAND PAPER
WEAR PROTECTIVE CLOTHING DURING COMPOSITE DAMAGE REPAIR
CLEAN SURFACE
- SELECT METHOD FOR SPECIFIC APPLICATION
G0172 CLEAN REPAIR SURFACE BY SOLVENT METHOD
G0173 CLEAN REPAIR SURFACES BY NON-TANK PHOSPHORIC ETCH METHOD
H0225 CLEAN DAMAGED AREA WITH METHYL ETHYL KETONE (MEK)
H0226 CLEAN DAMAGED AREA WITH SOLVENT OTHER THAN MEK
INSPECT SURFACE FOR CLEANLINESS (REPEAT CLEANING IF REQUIRED)

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE PNEUMATIC SANDERS
USE ABRASIVE PAPER
APPLY SOLVENTS
USE VACUUM CLEANERS
APPLY PASSIVATING SOLUTIONS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
RECALL TYPES, USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE
MATERIALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED
STRUCTURES
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS
MATERIALS
SELECT COMMON HANDTOOLS
SELECT ABRASIVE PAPER
SELECT SOLVENTS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF HONEYCOMB CORE
MATERIALS

TASK #: 00640
 REPLACE HONEYCOMB CORE

EQUIPMENT:

COMMON HANDTOOLS
 PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
 CORE CUTTERS
 PNEUMATIC SANDER
 ABRASIVE PAPER
 HOT BOND CURING EQUIPMENT
 PYROMETER
 VACUUM PUMP
 HEAT BLANKETS
 HEAT LAMP
 WEIGHT MEASURING SCALE
 MASKING MATERIALS
 CLEANING SOLVENT
 PARTING AGENT
 RESINS/ADHESIVES
 PREPREG MATERIALS
 VACUUM CLEANER

REFERENCES:

MIL-HBK 337 (ADHESIVE BONDED AEROSPACE STRUCTURE REPAIR)

CONDITIONS CUES:

CONDITION: IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5	G0169	4.28	26	29	28	22	4.36	7
427X5	G0170	3.67	8	9	8	10	4.64	7
427X5	G0171	4.69	35	40	44	37	4.46	15
427X5	G0178	4.86	20	22	23	13	5.49	7
427X5	G0180	4.48	15	18	19	13	5.24	7
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	G0203	4.91	22	28	31	32	5.31	7
427X5	G0204	5.35	58	61	65	50	4.91	18
427X5	H0223	4.86	50	53	55	41	4.00	17
427X5	H0231	5.24	38	44	45	37	4.95	12
427X5	H0242	5.91	63	66	68	52	4.64	18
427X5	I0264	4.24	20	20	18	12	3.82	7
427X1	S0850	.43	0	0	0	0	6.79	2
427X1	S0851	.43	0	0	0	0	6.53	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

CLEAN AREA USING APPROVED SOLVENT AND METHOD

REPLACE CORE USING POTTED METHOD

- PREPARE POTTING COMPOUND FOR SPECIFIC APPLICATION

- APPLY POTTING COMPOUND

- SET UP HEATING EQUIPMENT

- CURE REPAIR

- SMOOTH REPAIR

- INSPECT POTTED AREA

- APPLY EXTERNAL PATCH OVER AREA (IF REQUIRED)

REPLACE CORE USING CORE REPLACEMENT METHOD

- SELECT SIZE AND TYPE OF REPLACEMENT CORE

- CUT REPLACEMENT CORE AND TRIM FOR PROPER FIT

- SELECT METHOD FOR SPECIFIC APPLICATION

GO178 CUT AND SHAPE REPLACEMENT HONEYCOMB CORE USING CORE SLICER
ASSEMBLY

GO180 CUT REPLACEMENT HONEYCOMB CORE USING CYLINDRICAL CORE CUTTER

- PREPARE POTTING COMPOUND OR CORE SPLICE MATERIAL FOR SPECIFIC APPLICATION

- APPLY POTTING COMPOUND OR CORE SPLICE

- SET UP HEATING EQUIPMENT

- CURE REPAIR

- SMOOTH/SHAPE REPAIR

INSPECT CORE REPLACEMENT

APPLY EXTERNAL PATCH OVER AREA

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT

USE COMMON HANDTOOLS

USE CORE CUTTERS

USE PNEUMATIC SANDERS

USE ABRASIVE PAPER

USE STANDARD MEASURING INSTRUMENTS

USE PYROMETER

OPERATE WEIGHT MEASURING SCALES

APPLY MASKING MATERIALS

APPLY PARTING AGENTS

APPLY SOLVENTS

USE VACUUM CLEANERS

OPERATE HEATING/CURING EQUIPMENT

APPLY LIQUID/PASTE ADHESIVES

APPLY FOAM ADHESIVES

APPLY FILM ADHESIVES

APPLY RESINS

APPLY PREPEGS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE MATERIALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED STRUCTURES
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS MATERIALS
SELECT COMMON HANDTOOLS
SELECT SPECIAL TOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT ABRASIVE PAPER
SELECT WEIGHT MEASURING SCALES
RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
SELECT SOLVENTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
INTERPRET GAGES OR METERS
SELECT MASKING MATERIALS
SELECT PARTING AGENTS
SELECT CUTTERS/BLADES
RECOGNIZE CAPABILITIES/APPLICATIONS OF HEATING/CURING EQUIPMENT
SELECT ADHESIVES
RECOGNIZE STORAGE/HANDLING PRECAUTIONS OF COMPOSITE REPAIR MATERIALS
SELECT COMPOSITE TOOLING
G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

G0169 APPLY FILM ADHESIVES
G0170 APPLY FOAM ADHESIVES
G0171 APPLY LIQUID ADHESIVES
G0203 PERFORM POTTING COMPOUND REPAIRS TO METAL BONDED HONEYCOMB PANELS
G0204 PREPARE ADHESIVES
H0223 APPLY PARTING AGENTS SUCH AS POLYVINYL ALCOHOL (PVA)
H0231 CUT REPLACEMENT HONEYCOMB CORE
H0242 PREPARE RESIN MIXTURES
I0264 WEAR PROTECTIVE CLOTHING DURING COMPOSITE DAMAGE REPAIR
S0851 REPAIR DAMAGED HONEYCOMB CORE WITH SPECIAL HONEYCOMB STRUCTURE REPAIR KITS
S0850 REPAIR DAMAGED COMPOSITE MATERIALS WITH SPECIAL COMPOSITE MATERIALS REPAIR KITS

TASK #: 00650

CURE BONDED STRUCTURE REPAIRS USING HOT-BOND CURING EQUIPMENT

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
HOT BOND CURING EQUIPMENT
PYROMETER
VACUUM PUMP
HEAT BLANKETS
HEAT LAMP
FIBERGLASS DRY CLOTH
PERFORATED RELEASE FILM
MASKING MATERIALS
CLEANING SOLVENT
VACUUM CLEANER

REFERENCES:

T.O. 1-1-690 (GENERAL ADVANCED COMPOSITE REPAIR PROCESSES MANUAL)
MIL-HBK 337 (ADHESIVE BONDED AEROSPACE STRUCTURE REPAIR)

CONDITIONS CUES:

CONDITION: IN SHOP
CONDITION: ENVIRONMENTALLY CONTROLLED AREA REQUIRED

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5	G0174	5.19	48	49	52	36	4.67	12
427X5	G0175	4.02	10	13	13	10	4.83	7
427X5	G0176	5.31	23	26	26	21	5.47	11
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	G0201	4.71	13	17	18	17	6.10	7
427X5	G0202	4.38	15	18	18	15	6.17	7
427X5	H0227	3.72	15	17	17	14	4.91	7
427X5	H0228	3.50	9	11	11	11	4.73	7
427X5	H0229	5.07	21	24	23	18	5.42	11
427X5	H0230	4.81	51	54	56	42	4.20	17
427X5	H0237	4.10	12	15	16	17	5.46	7
427X5	I0250	3.88	8	9	10	10	6.03	7
427X5	I0251	3.66	4	5	4	7	6.31	7
427X5	I0264	4.24	20	20	18	12	3.82	7
427X1	S0834	.55	0	0	0	0	6.32	2
427X1	S0835	.55	0	0	0	0	6.25	2
427X1	S0850	.43	0	0	0	0	6.79	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

ASSEMBLE REPAIR MATERIALS
TAPE PERFORATED RELEASE FILM OVER REPAIR AREA
POSITION THERMOCOUPLES
POSITION FIBERGLASS DRY CLOTH (BREATHER/BLEEDER) OVER AREA
POSITION HEAT BLANKET
TAPE INSULATION MATERIAL IN PLACE OVER HEAT BLANKET
TAPE BREATHER/BLEEDER MATERIAL IN PLACE
PLACE SEALANT TAPE AROUND PERIPHERY OF REPAIR AREA
POSITION VACUUM OUTLET
PLACE BAGGING FILM OVER AREA AND PRESS INTO SEALANT TAPE
CONNECT VACUUM PUMP AND PULL APPROXIMATELY 24 IN. HG
SET UP HOT BONDING EQUIPMENT
RAMP UP TEMPERATURE APPROXIMATELY 5 DEGREES PER MINUTE UNTIL
DESIRED TEMPERATURE IS ACHIEVED
H0237 MONITOR AND ADJUST CORRECT SURFACE TEMPERATURE OF REPAIR AREA
WITH HEAT MEASURING DEVICE
HOLD TEMPERATURE FOR FULL TERM OF CURE CYCLE
DOWN RAMP TEMPERATURE (APPROXIMATELY 5 DEGREES PER MINUTE UNTIL
AMBIENT TEMPERATURE IS REACHED)
DISCONNECT HEATING EQUIPMENT AND REMOVE VACUUM BAG
REMOVE ALL BAGGING AND BLEEDER/BREATHER MATERIALS
INSPECT AREA

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE STANDARD MEASURING INSTRUMENTS
USE PYROMETER
APPLY MASKING MATERIALS
APPLY PARTING AGENTS
USE VACUUM CLEANERS
OPERATE HEATING/CURING EQUIPMENT

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE
MATERIALS
SELECT COMMON HANDTOOLS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
INTERPRET GAGES OR METERS
SELECT MASKING MATERIALS
SELECT PARTING AGENTS
RECOGNIZE CAPABILITIES/APPLICATIONS OF HEATING/CURING EQUIPMENT
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF HONEYCOMB CORE
MATERIALS

SELECT ADHESIVES

RECOGNIZE STORAGE/HANDLING PRECAUTIONS OF COMPOSITE REPAIR
MATERIALS

SELECT COMPOSITE TOOLING

G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

G0174 CURE BONDED HONEYCOMB REPAIR WITH INFRARED HEAT LAMPS
G0175 CURE BONDED HONEYCOMB REPAIRS WITH HEAT GUNS
G0176 CURE BONDED HONEYCOMB REPAIRS WITH HEATING BLANKETS
G0201 PERFORM HOT BONDING OF ALUMINUM TO METAL BONDED HONEYCOMB PANELS
G0202 PERFORM HOT BONDING OF FIBERGLASS FABRIC TO METAL BONDED HONEYCOMB
H0227 CURE FIBERGLASS REPAIRS WITH AIR-CIRCULATING OVENS
H0228 CURE FIBERGLASS REPAIRS WITH HEAT GUN
H0229 CURE FIBERGLASS REPAIRS WITH HEATING BLANKETS
H0230 CURE FIBERGLASS REPAIRS WITH INFRARED HEAT LAMPS
I0250 CURE ADVANCED COMPOSITE REPAIRS USING HEAT-BLANKET-VACUUM METHOD
I0251 CURE ADVANCED COMPOSITE REPAIRS USING HEAT BLANKET-STACKED-METHOD
I0264 WEAR PROTECTIVE CLOTHING DURING COMPOSITE DAMAGE REPAIR
S0834 CURE ADVANCED COMPOSITE REPAIRS USING HEAT-BLANKET-STACKED METHOD
S0835 CURE ADVANCED COMPOSITE REPAIRS USING HEAT-BLANKET-VACUUM METHOD
S0850 REPAIR DAMAGED COMPOSITE MATERIALS WITH SPECIAL COMPOSITE
MATERIALS REPAIR KITS

TASK #: 00660

REPAIR AIRCRAFT BONDED STRUCTURE SKIN DELAMINATIONS

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
PNEUMATIC DRILL
DRILL BITS
SYRINGE
ABRASIVE PAPER
WEIGHT MEASURING SCALE
HOT BOND CURING EQUIPMENT
PYROMETER
VACUUM PUMP
HEAT BLANKETS
HEAT LAMP
FIBERGLASS DRY CLOTH
PERFORATED RELEASE FILM
RESIN
MASKING MATERIALS
CLEANING SOLVENT
VACUUM CLEANER

REFERENCES:

T.O. 1-1-690 (GENERAL ADVANCED COMPOSITE REPAIR PROCESSES MANUAL)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENI	5 LVL	7 LVL	TSK DIF	ATI
427X5	G0171	4.69	35	40	44	37	4.46	15
427X5	G0199	6.41	52	57	61	69	6.00	18
427X5	G0204	5.35	58	61	65	50	4.91	18
427X5	H0233	5.38	39	45	51	41	4.23	12
427X5	H0242	5.91	63	66	68	52	4.64	18
427X5	I0254	3.69	7	7	7	9	6.54	7
427X5	I0255	3.69	6	6	6	9	6.63	7
427X5	I0264	4.24	20	20	18	12	3.82	7
427X1	S0840	.47	0	0	0	0	6.95	2
427X1	S0841	.47	0	0	0	0	7.01	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT AREA TO DETERMINE EXTENT OF DAMAGE
DRILL A MINIMUM OF TWO HOLES IN AREA
H0242 PREPARE RESIN MIXTURES
G0233 INJECT RESIN INTO SKIN DELAMINATED AREAS (INJECT INTO ONE OF THE
DRILLED HOLES)
CONTINUE TO INJECT RESIN UNTIL RESIN EXITS THROUGH HOLES
SET UP HOT BOND EQUIPMENT FOR CURE CYCLE (IF REQUIRED BY SPECIFIC
APPLICATION)
VACUUM BAG REPAIR AREA
CURE REPAIR
DISCONNECT HEATING EQUIPMENT AND REMOVE VACUUM BAG
ALLOW TO COOL
INSPECT REPAIRED AREA
FINISH (SMOOTH) REPAIR AND APPLY SURFACE COATING AS REQUIRED

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE SYRINGE
USE PNEUMATIC DRILLS
USE ABRASIVE PAPER
USE STANDARD MEASURING INSTRUMENTS
USE PYROMETER
OPERATE WEIGHT MEASURING SCALES
APPLY MASKING MATERIALS
APPLY PARTING AGENTS
APPLY SOLVENTS
USE VACUUM CLEANERS
OPERATE HEATING/CURING EQUIPMENT
APPLY RESINS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE
MATERIALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED
STRUCTURES
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS
MATERIALS
SELECT COMMON HANDTOOLS
SELECT SPECIAL TOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT ABRASIVE PAPER

SELECT WEIGHT MEASURING SCALES
 RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
 SELECT SOLVENTS
 PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
 INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
 INTERPRET GAGES OR METERS
 SELECT MASKING MATERIALS
 SELECT PARTING AGENTS
 SELECT PROTECTIVE COATINGS
 SELECT DRILL BITS
 RECOGNIZE CAPABILITIES/APPLICATIONS OF HEATING/CURING EQUIPMENT
 RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF HONEYCOMB CORE
 MATERIALS
 SELECT ADHESIVES
 RECOGNIZE STORAGE/HANDLING PRECAUTIONS OF COMPOSITE REPAIR
 MATERIALS
 SELECT COMPOSITE TOOLING
 G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

G0171 APPLY LIQUID ADHESIVES
 G0204 PREPARE ADHESIVES
 I0254 PERFORM COMPOSITE PLY-TO-CORE DELAMINATION REPAIRS
 I0255 PERFORM COMPOSITE PLY-TO-PLY DISBOND REPAIRS
 I0264 WEAR PROTECTIVE CLOTHING DURING COMPOSITE DAMAGE REPAIR
 S0840 PERFORM COMPOSITE PLY-TO-CORE DELAMINATION REPAIRS
 S0841 PERFORM COMPOSITE PLY-TO-CORE DISBOND REPAIRS

TASK #: 00670
 PERFORM MAT MOLD REPAIRS (H0239)

EQUIPMENT:

COMMON HANDTOOLS
 PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
 PNEUMATIC DRILL
 PNEUMATIC SANDER
 ABRASIVE PAPER
 PRESSURE PLATES
 C-CLAMPS
 WEIGHT MEASURING SCALES
 MASKING MATERIALS
 CLEANING SOLVENT
 PARTING AGENT
 DRY FIBERGLASS MATTING
 RESIN
 PROTECTIVE COATING
 VACUUM CLEANER

REFERENCES:

T.O. 1-1-24 (MAINTENANCE, REPAIR, AND ELECTRICAL REQUIREMENTS FOR
 FIBERGLASS AIRBORNE RADOMES)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X5	H0239	4.88	43	48	49	35	4.65	15
427X5	G0204	5.35	58	61	65	50	4.91	18
427X5	H0221	4.41	38	40	42	36	4.37	15
427X5	H0222	5.24	62	65	68	51	4.75	18
427X5	H0223	4.86	50	53	55	41	4.00	17
427X5	H0232	5.05	64	66	68	50	4.22	18
427X5	H0242	5.91	63	66	68	52	4.64	18
427X5	H0246	5.09	46	50	53	42	4.44	18
427X5	H0248	4.14	34	35	34	29	3.25	15
427X5	I0264	4.24	20	20	18	12	3.82	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

- I0264 INSPECT AND EVALUATE DAMAGED AREA
- G0248 WEAR PROTECTIVE CLOTHING DURING COMPOSITE DAMAGE REPAIR
- STOP DRILL CRACKS ON MAT MOLD ASSEMBLIES
- SCARF OUT DAMAGED AREA
- CLEAN REPAIR AREA
- PERFORM VISUAL INSPECTION OF AREA TO INSURE ALL DAMAGE HAS BEEN REMOVED
- H0242 PREPARE RESIN MIXTURES
- SATURATE REPAIR AREA WITH RESIN
- APPLY DRY FIBERGLASS MATTING
- SATURATE MATTING
- H0223 APPLY PARTING AGENTS SUCH AS POLYVINYL ALCOHOL (PVA)
- POSITION PRESSURE PLATES AND CLAMP INTO PLACE
- ALLOW TO CURE
- REMOVE CLAMPS, PRESSURE PLATES, AND PARTING AGENT
- H0232 FINISH FIBERGLASS REPAIRS TO SMOOTH SURFACE
- INSPECT REPAIRED AREA

SKILLS

- USE PERSONAL PROTECTIVE EQUIPMENT
- USE COMMON HANDTOOLS
- USE PNEUMATIC DRILLS
- USE PNEUMATIC SANDERS
- USE ABRASIVE PAPER
- USE WORKPIECE HOLDING DEVICES
- USE STANDARD MEASURING INSTRUMENTS
- OPERATE WEIGHT MEASURING SCALES
- APPLY MASKING MATERIALS
- APPLY PARTING AGENTS
- APPLY SOLVENTS
- APPLY PROTECTIVE COATINGS
- USE VACUUM CLEANERS
- APPLY RESINS

KNOWLEDGE

- INTERPRET TECHNICAL DATA
- LOCATE TECHNICAL DATA
- RECALL SHOP SAFETY PRECAUTIONS
- RECALL FLIGHTLINE SAFETY PRECAUTIONS
- RECALL CHEMICAL SAFETY PRECAUTIONS
- RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
- RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
- RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS MATERIALS
- SELECT COMMON HANDTOOLS
- SELECT PNEUMATIC HANDTOOLS
- SELECT ABRASIVE PAPER
- SELECT WEIGHT MEASURING SCALES
- RECALL CHEMICAL COMPOUND MIXING TECHNIQUES

SELECT SOLVENTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT CLAMPS
SELECT MASKING MATERIALS
SELECT PARTING AGENTS
SELECT PROTECTIVE COATINGS
SELECT ADHESIVES

RELATED TASKS

G0204 PREPARE ADHESIVES
H0221 APPLY DIRECT PRESSURE TO FIBERGLASS REPAIR SURFACES
H0222 APPLY FIBERGLASS REPAIR MATERIALS TO DAMAGED AREAS
H0246 REMOVE EXCESSIVE RESIN AND AIR BUBBLES WITH SQUEEGEE OR PHENOLIC
MATERIAL

TASK #: 00680

APPLY AERODYNAMIC SMOOTHING COMPOUNDS (G0167)

EQUIPMENT:

COMMON HANDTOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
SMOOTHING COMPOUND
PNEUMATIC SANDER
ABRASIVE PAPER
WEIGHT MEASURING SCALES
MASKING MATERIALS
CLEANING SOLVENT
PARTING AGENT
PROTECTIVE COATING
VACUUM CLEANER

REFERENCES:

APPLICABLE AIRCRAFT STRUCTURES T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

OSR SOURCE:

	JOB	TNC	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
42755	G0167	5.15	74	77	78	63	3.59	18
42755	G0204	5.35	58	61	65	50	4.91	18
427X5	G0257	3.57	37	38	37	25	4.95	15
427X5	I0264	4.24	20	20	18	12	3.82	7
427X1	S0838	.47	0	1	1	0	6.23	2
427X1	S0838	.43	0	1	1	1	5.73	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

I0264 INSPECT AND EVALUATE DAMAGED AREA
WEAR PROTECTIVE CLOTHING DURING COMPOSITE DAMAGE REPAIR
ABRADE SURFACE USING 120 GRIT SANDPAPER
CLEAN SURFACE
- SELECT METHOD FOR SPECIFIC APPLICATION
PREPARE SMOOTHING COMPOUND
APPLY SMOOTHING COMPOUND
ALLOW TO CURE
INSPECT REPAIRED AREA
FINISH (SMOOTH) REPAIR AND APPLY SURFACE COATING

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE PNEUMATIC SANDERS
USE ABRASIVE PAPER
USE STANDARD MEASURING INSTRUMENTS
OPERATE WEIGHT MEASURING SCALES
APPLY MASKING MATERIALS
APPLY PARTING AGENTS
APPLY SOLVENTS
APPLY PROTECTIVE COATINGS
USE VACUUM CLEANERS
APPLY LIQUID/PASTE ADHESIVES

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED
STRUCTURES
SELECT COMMON HANDTOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT ABRASIVE PAPER
SELECT WEIGHT MEASURING SCALES
RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
SELECT SOLVENTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT MASKING MATERIALS
SELECT PARTING AGENTS
SELECT PROTECTIVE COATINGS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF HONEYCOMB CORE
MATERIALS
SELECT ADHESIVES

RELATED TASKS

G0204 PREPARE ADHESIVES
I0257 PERFORM MINOR SURFACE DAMAGE OR DENT REPAIRS WITH STRUCTURAL
ADHESIVE
S0838 PERFORM MINOR SURFACE DAMAGE REPAIRS WITH STRUCTURAL ADHESIVE
S0839 PERFORM MINOR SURFACE DENT REPAIRS WITH STRUCTURAL ADHESIVE

TASK #: 00690

APPLY NEUTRALIZING AGENTS TO CORROSIVE MATERIAL SPILLS (G0240)

EQUIPMENT:

FACE SHIELD
RESPIRATOR
RUBBER GLOVES
ACID RESISTANT APRON
NEUTRALIZATION AGENTS
BUCKET/CONTAINER
SPILL DIKE
CONTAINER/BAGS
MASKING MATERIALS (TAPE, TEFLON TAPE, ALUMINUM FOIL)
SPONGES/RAGS/MOP
COMMON HANDTOOLS
PH TEST EQUIPMENT
EYE WASH/SHOWER STATION
WATER SUPPLY
VACUUM CLEANER
AIRCRAFT WASHER

REFERENCES:

T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
T.O. 1-1-2 (CORROSION PREVENTION AND CONTROL FOR AEROSPACE EQUIPMENT)
AFOSH STDS (127 SERIES)
SPILL KIT INSTRUCTIONS

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

NEUTRALIZE CHEMICAL TO MEASURE 7 ON PH SCALE USING PH TEST EQUIPMENT

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	G0240	5.10	34	37	34	23	5.19	12
427X1	G0263	5.14	53	54	52	42	5.48	18
427X1	I0353	2.92	12	13	14	11	4.72	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

G0263 DON SAFETY EQUIPMENT
IDENTIFY TYPE OF CORROSIVE MATERIALS
CONTAIN SPILL (REMOVE CARGO IF ON AIRCRAFT)
NOTIFY AGENCIES (IF REQUIRED)
IDENTIFY PH FACTOR OF MATERIAL SPILLED

OBTAIN NEUTRALIZING AGENT FOR CORROSIVE MATERIAL (CRITICAL)
MIX NEUTRALIZING AGENT
APPLY NEUTRALIZING AGENT TO SPILL
CHECK FOR NEUTRALIZATION
APPLY NEUTRALIZING AGENT UNTIL PH IS NORMAL
MOP UP SPILL
DISPOSE OF WASTE

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE STANDARD MEASURING INSTRUMENTS
USE PH TEST EQUIPMENT
APPLY MASKING MATERIALS
USE VACUUM CLEANERS
10353 APPLY NEUTRALIZING AGENTS
OPERATE AIRCRAFT WASHERS
USE EMERGENCY EYE WASH/SHOWER STATIONS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF PLASTICS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE
MATERIALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED
STRUCTURES
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS
MATERIALS
SELECT SPECIAL TOOLS
SELECT COMMON HARDWARE
SELECT COMMON FASTENERS
SELECT SPECIAL FASTENERS
SELECT CABLES
RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
SELECT NEUTRALIZING AGENTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
INTERPRET GAGES OR METERS
SELECT MASKING MATERIALS
RECOGNIZE CAPABILITIES/APPLICATIONS OF AIRCRAFT WASHERS

TASK #: 00700
APPLY WALKWAY COATINGS (G0241)

EQUIPMENT:

SPRAY PAINT EQUIPMENT
BRUSHES
MASKING MATERIALS
RUBBER GLOVES
RESPIRATOR
GOGGLES/EYE PROTECTION
COATING MATERIALS
ADHESIVE
AIR SUPPLY
COVERALLS
COMMON HANDTOOLS
SANDER
ABRASIVE PAPER

REFERENCES:

1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
1-1-4 (AIRCRAFT MARKINGS)
1-1-8 (APPLICATION OF ORGANIC COATINGS)
APPLICABLE AIRCRAFT -23 T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW -23 AIRCRAFT T.O.

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	G0241	4.57	71	74	70	49	3.82	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

APPLY ANTI-SKID ABRASIVE PAPER
- DETERMINE LOCATION FOR APPLICATION
- REMOVE ADHESIVE BACKING PAPER
- APPLY ANTI-SKID PAPER
APPLY ANTI-SKID PAINT
- DETERMINE LOCATION FOR APPLICATION
- MASK OFF BOUNDARY
- PREPARE SURFACE FOR COATING
- APPLY PROTECTIVE COATING WITH SPRAY EQUIPMENT OR BRUSH
- APPLY ABRASIVE SAND/GLASS (IF REQUIRED)

- APPLY FINAL COAT OF PROTECTIVE COATING
- APPLY FINAL COAT OF ABRASIVE

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
 USE COMMON HANDTOOLS
 USE PNEUMATIC SANDERS
 USE ABRASIVE PAPER
 USE STANDARD MEASURING INSTRUMENTS
 APPLY MASKING MATERIALS
 APPLY PROTECTIVE COATINGS
 USE AIRLESS SPRAY GUNS
 USE PRESSURE FEED SPRAY GUNS
 USE SUCTION FEED SPRAY GUNS
 APPLY ADHESIVES

KNOWLEDGE

INTERPRET TECHNICAL DATA
 LOCATE TECHNICAL DATA
 RECALL SHOP SAFETY PRECAUTIONS
 RECALL FLIGHTLINE SAFETY PRECAUTIONS
 RECALL CHEMICAL SAFETY PRECAUTIONS
 RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
 RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
 SELECT COMMON HANDTOOLS
 SELECT SPECIAL TOOLS
 SELECT PNEUMATIC HANDTOOLS
 SELECT ABRASIVE PAPER
 RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
 SELECT SOLVENTS
 PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
 SELECT MASKING MATERIALS
 SELECT PROTECTIVE COATINGS
 RECOGNIZE CAPABILITIES/APPLICATIONS OF AIRLESS SPRAY GUNS
 RECOGNIZE CAPABILITIES/APPLICATIONS OF PRESSURE FEED SPRAY GUNS
 RECOGNIZE CAPABILITIES/APPLICATIONS OF SUCTION FEED SPRAY GUNS
 SELECT ADHESIVES

TASK #: 00710

COAT CABLES WITH CORROSION PREVENTIVE MATERIALS (G0249)

EQUIPMENT:

CORROSION PREVENTIVE COMPOUND (CPC)

RAGS

BRUSHES

RESPIRATOR

EYE PROTECTION

COVERALLS

GLOVES

COMMON HANDTOOLS

MASKING MATERIALS

SOLVENT

SPRAY PAINTING EQUIPMENT

REFERENCES:

T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)

T.O. 1-1-2 (CORROSION PREVENTION AND CONTROL FOR AEROSPACE EQUIPMENT)

APPLICABLE AIRCRAFT -23 T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN HANGER

STANDARDS:

APPLY CPC EVENLY OVER ENTIRE LENGTH OF CABLE

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	G0249	3.51	16	20	18	13	3.56	11
427X5	K0302	2.52	7	7	7	7	3.95	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

CLEAN AND INSPECT CABLES

- APPLY CPC IDENTIFIED IN AIRCRAFT T.O. USING BRUSH, SPRAY, OR SWAB

APPLY EVENLY THROUGHOUT LENGTH OF CABLE

REMOVE ANY RESIDUE

SKILLS

- USE PERSONAL PROTECTIVE EQUIPMENT
- USE COMMON HANDTOOLS
- APPLY MASKING MATERIALS
- APPLY SOLVENTS
- APPLY SEALANTS
- USE AEROSOL SPRAYS
- APPLY PROTECTIVE COATINGS
- USE SUCTION FEED SPRAY GUNS
- USE PAINT BRUSHES

KNOWLEDGE

- INTERPRET TECHNICAL DATA
- LOCATE TECHNICAL DATA
- RECALL SHOP SAFETY PRECAUTIONS
- RECALL FLIGHTLINE SAFETY PRECAUTIONS
- RECALL CHEMICAL SAFETY PRECAUTIONS
- RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
- RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
- SELECT COMMON HANDTOOLS
- SELECT CABLES
- SELECT SOLVENTS
- SELECT SEALANTS
- SELECT MASKING MATERIALS
- SELECT PROTECTIVE COATINGS
- RECOGNIZE CAPABILITIES/APPLICATIONS OF SUCTION FEED SPRAY GUNS
- SELECT PAINT BRUSHES

RELATED TASKS

K0302 COAT CABLES WITH CORROSION PREVENTIVE MATERIALS

TASK #: 00720
STORE CORROSION CONTROL MATERIALS

NOTES:

TASK APPLIES TO BENCH STOCK AND RESIDUE/SHOP STOCK

EQUIPMENT:

LABELING EQUIPMENT
COMMON HANDTOOLS
SUCTION FEED SPRAY EQUIPMENT
STORAGE CABINET/SHED
GROUNDING CABLES AND GROUNDING POSTS
STENCILS

REFERENCES:

SHELF LIFE LIST
LAST INSPECTION DATE LIST
NEXT INSPECTION DATE LIST
AFOSH STD (127 SERIES)
T.O. 00-20K-1 (INSPECTION AND CONTROL OF USAF SHELF-LIFE EQUIPMENT)

CONDITIONS CUES:

CONDITION: IN SHOP OR HANGER

STANDARDS:

IAW LOCAL DIRECTIVES

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	G0281	4.00	57	59	58	40	3.61	18
427X1	G0282	3.86	42	39	37	32	3.39	12
427X1	G0283	4.31	80	80	78	57	3.35	18
427X1	H0334	4.88	42	47	53	61	4.39	12
427X1	H0335	4.06	25	27	28	39	4.42	11

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

G0281 PLACE CORROSION REMOVING COMPOUNDS IN STORAGE
G0282 PLACE PASSIVATING SOLUTIONS IN STORAGE
G0283 PLACE PROTECTIVE COATING MATERIALS IN STORAGE
H0334 INSPECT SHELF LIFE OF PROTECTIVE COATINGS
H0335 INSPECT SHELF LIFE OF PROTECTIVE COMPOUNDS
ROTATE STOCK TO KEEP OLD ITEMS IN FRONT
SAMPLE PROTECTIVE COATINGS PRIOR TO UPDATE OF SHELF LIFE

SKILLS

USE COMMON HANDTOOLS
APPLY PROTECTIVE COATINGS
USE SUCTION FEED SPRAY GUNS
USE STENCIL MACHINES
USE STENCILS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET GAGES OR METERS
SELECT PROTECTIVE COATINGS
RECOGNIZE CAPABILITIES/APPLICATIONS OF SUCTION FEED SPRAY GUNS
RECOGNIZE CAPABILITIES/APPLICATIONS OF STENCIL MACHINES
RECALL TYPES/USES OF STENCILS

TASK #: 00730

DISPOSE OF CHEMICAL WASTES (G0255)

EQUIPMENT:

STENCIL MACHINE
FACE SHIELD
RESPIRATOR
ACID RESISTANT APRON
COVERALLS
RUBBER GLOVES
HAZARDOUS WASTE CONTAINERS
FUNNEL
BARREL WRENCH/COMMON HANDTOOLS
CHEMICAL WASTE
PH METERING DEVICE
STEAM CLEANING EQUIPMENT
SPRAY PAINTING EQUIPMENT
SPILL KITS
BARREL PUMP
EMERGENCY EYE WASH/SHOWERS

REFERENCES:

T.O. 1-1-2 (CORROSION PREVENTION AND CONTROL FOR AEROSPACE EQUIPMENT)
AFOSH STD (127 SERIES)
ANSI STDS
DOT AND EPA REQUIREMENTS

CONDITIONS CUES:

CONDITION: IN SHOP OR IN OUTSIDE COLLECTION ZONES

STANDARDS:

DISPOSE OF WASTES IAW ANSI STANDARDS WITHOUT CONTAMINATING ENVIRONMENT

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	G0255	5.33	77	75	68	50	5.37	18
427X1	A0004	2.47	5	7	13	40	5.88	7
427X1	A0006	2.98	15	14	20	50	5.67	7
427X1	G0256	5.12	53	51	47	33	5.23	18
427X1	G0257	4.98	37	36	35	29	5.10	12
427X1	G0258	5.51	81	79	77	61	4.77	18
427X1	G0309	.35	3	4	3	4	3.24	2
427X1	M0615	2.37	7	8	6	6	5.07	7
427X1	M0620	2.35	20	21	21	11	4.15	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

DON SAFETY EQUIPMENT
DETERMINE TYPE AND AMOUNT OF CHEMICAL WASTE
REMOVE SAFETY EQUIPMENT
A0006 COORDINATE DISPOSAL OF WASTE MATERIALS WITH HAZARDOUS WASTE
MONITORS (IF REQUIRED)
A0004 COORDINATE CHEMICAL DISPOSAL WITH ENVIRONMENTAL ENGINEERS (IF
REQUIRED)
DON SAFETY EQUIPMENT
OPEN WASTE CONTAINER
POUR IN WASTE MATERIALS
CLOSE WASTE CONTAINER
CLEAN UP AND DISPOSE OF SPILLS
PAINT CONTAINER IF REQUIRED
LABEL CONTENTS ON CONTAINER (INCLUDE START AND DISPOSAL DATES)

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE BARREL WRENCH
USE BARREL PUMP
USE PH TEST EQUIPMENT
USE AEROSOL SPRAYS
USE STEAM CLEANING EQUIPMENT
USE SUCTION FEED SPRAY GUNS
USE STENCIL MACHINES
USE STENCILS
USE EMERGENCY EYE WASH/SHOWERS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF CHEMICALS
SELECT COMMON HANDTOOLS
SELECT SPECIAL TOOLS
SELECT PRECISION MEASURING INSTRUMENTS
SELECT SOLVENTS
SELECT NEUTRALIZING AGENTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
SELECT PROTECTIVE COATINGS
RECOGNIZE CAPABILITIES/APPLICATIONS OF STEAM CLEANING EQUIPMENT
RECOGNIZE CAPABILITIES/APPLICATIONS OF SUCTION FEED SPRAY GUNS
RECOGNIZE CAPABILITIES/APPLICATIONS OF STENCIL MACHINES
RECALL TYPES/USES OF STENCILS

RELATED TASKS

G0256 DISPOSE OF CORROSION REMOVING COMPOUNDS
G0257 DISPOSE OF PASSIVATING SOLUTIONS
G0258 DISPOSE OF PROTECTIVE COATING MATERIALS
G0309 STEAM OUT BARRELS
M0615 CLEAN CHEMICAL WASTE TANKS
M0620 CLEAN FLOOR DRAINS LEADING TO HAZARDOUS WASTE COLLECTION TANKS

TASK #: 00740

IDENTIFY CAUSES OF PROTECTIVE COATING FAILURES (H0325)

EQUIPMENT:

APPLIED PROTECTIVE COATING COMPONENTS
FILM THICKNESS GAGE

REFERENCES:

T.O. 1-1-8 (APPLICATION OF ORGANIC COATINGS)

CONDITIONS CUES:

CONDITION: FLIGHTLINE, HANGER, OR IN SHOP

STANDARDS:

IAW T.O. 1-1-8

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	H0325	5.80	57	55	57	65	6.06	18
427X1	H0327	5.80	49	51	53	60	5.78	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

PERFORM VISUAL INSPECTION OF AREA FOR PROTECTIVE COATING FAILURE
LOCATE CAUSE OF FAILURE IN T.O. (1 OF 5 BASIC REASONS)

SKILLS

USE STANDARD MEASURING INSTRUMENTS
USE FILM THICKNESS GAGES

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF PLASTICS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE
MATERIALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED
STRUCTURES
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS
MATERIALS
SELECT PRECISION MEASURING INSTRUMENTS

SELECT SOLVENTS
SELECT PASSIVATION SOLUTIONS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT PROTECTIVE COATINGS
H0327 IDENTIFY TYPES OF PROTECTIVE COATING FAILURES

TASK #: 00750

INSPECT AEROSPACE MATERIALS FOR CORROSION

EQUIPMENT:

SAFETY EQUIPMENT
BOROSCOPE
DEPTH GAGE
OPTICAL MICROMETER
PROBES/SCRIBES
STRAIGHT EDGE
MIRRORS
FLASHLIGHT
MAGNIFYING GLASS
DIAL INDICATOR
WIRE BRUSH
PAINT STRIPPER

REFERENCES:

T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
T.O. 1-1-2 (CORROSION PREVENTION AND CONTROL FOR AEROSPACE EQUIPMENT)
APPLICABLE AIRCRAFT -3, -6, AND -23 T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE, HANGER, OR IN SHOP

STANDARDS:

IDENTIFY CORROSION IAW T.O.

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X5	G0189	5.15	32	38	41	50	5.21	12
427X1	H0320	2.88	9	9	10	12	5.98	7
427X1	H0321	5.14	25	26	29	40	6.00	11
427X1	H0322	3.08	4	5	5	9	6.31	7
427X1	H0323	6.29	63	66	67	69	6.14	18
427X1	H0324	5.94	52	53	54	62	5.96	18
427X1	H0326	6.69	67	70	71	69	5.51	18
427X1	H0328	3.53	14	15	18	16	5.04	11
427X1	H0330	3.08	7	7	7	6	6.06	7
427X1	H0331	6.20	67	73	71	64	5.10	18
427X1	H0332	5.45	67	71	74	71	4.89	18
427X1	H0333	3.88	29	31	31	34	4.96	12
427X1	H0336	1.71	9	8	8	5	4.83	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

- CLEAN OR INSURE CLEANLINESS OF AREA TO BE INSPECTED (STRIP COATING IF REQUIRED)
- PERFORM VISUAL INSPECTION FOR CORROSION USING TACTILE METHOD (EYES AND HANDS)
- H0323 DETERMINE SEVERITY OF CORROSION
- H0324 IDENTIFY CAUSES OF CORROSION
- DOCUMENT FINDINGS ON AFTO FORMS

SKILLS

- USE PERSONAL PROTECTIVE EQUIPMENT
- USE COMMON HANDTOOLS
- USE BOROSCOPE
- USE WIRE BRUSHES/WHEELS
- USE STANDARD MEASURING INSTRUMENTS
- USE DEPTH GAGE
- USE OPTICAL MICROMETER
- USE DIAL INDICATOR
- APPLY SOLVENTS

KNOWLEDGE

- INTERPRET TECHNICAL DATA
- LOCATE TECHNICAL DATA
- RECALL SHOP SAFETY PRECAUTIONS
- RECALL FLIGHTLINE SAFETY PRECAUTIONS
- RECALL CHEMICAL SAFETY PRECAUTIONS
- RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
- H0326 IDENTIFY TYPES/CHARACTERISTICS OF CORROSION
- RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
- RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF PLASTICS
- RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE MATERIALS
- RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED STRUCTURES
- RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS MATERIALS
- SELECT COMMON HANDTOOLS
- SELECT SPECIAL TOOLS
- SELECT WIRE BRUSHES/WHEELS
- SELECT COMMON HARDWARE
- SELECT COMMON FASTENERS
- SELECT SPECIAL FASTENERS
- SELECT CABLES
- SELECT PRECISION MEASURING INSTRUMENTS
- SELECT SOLVENTS
- SELECT SEALANTS
- PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
- INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
- INTERPRET GAGES OR METERS
- SELECT PROTECTIVE COATINGS

RELATED TASKS

G0189 INSPECT AIRCRAFT SURFACES FOR CORROSION
H0320 SELECT DEPTH OF CORROSION DAMAGE USING CALIPERS
H0321 SELECT DEPTH OF CORROSION DAMAGE USING DIAL INDICATORS
H0322 SELECT DEPTH OF CORROSION DAMAGE USING OPTICAL MICROMETERS
H0328 INSPECT AIRCRAFT CONTROL CABLES FOR CORROSION PROTECTIVE COMPOUND
(CPC) CONDITION
H0330 INSPECT AREAS FOR CORROSION USING BORESCOPES
H0331 INSPECT AREAS FOR CORROSION USING HAND EQUIPMENT SUCH AS
FLASHLIGHTS, PROBES, OR MIRRORS
H0332 INSPECT CONDITION OF PROTECTIVE COATINGS
H0333 INSPECT CONDITION OF PROTECTIVE COMPOUNDS
H0336 INSPECT SUSPENSION CABLES FOR CPC CONDITION

TASK #: 00760

ORGANIZE WASH RACK OPERATIONS

NOTES:

MANY BASES ARE GOING TO CONTRACT MAINTENANCE FOR WASH RACKS

EQUIPMENT:

LANYARD
SAFETY HARNESS
SAFETY EQUIPMENT (WET WEATHER GEAR - GLOVES, GOGGLES, RUBBER BOOTS)
AIRCRAFT WASHERS (POWERED/NON POWERED)
WATER SUPPLY
AIR SUPPLY
SOLVENTS
VACUUM CLEANER
STEAM CLEANING EQUIPMENT
CLEANING COMPOUNDS
WATER HOSES
AIR HOSES
BUCKETS
BRUSHES
SCRUB PADS
AIRCRAFT WASH PROTECTION KIT
MASKING MATERIALS
BARRIER PAPER
COMMON HANDTOOLS
EMERGENCY EYE WASH/SHOWER

REFERENCES:

T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
APPLICABLE AIRCRAFT -23 T.O.
AIRCRAFT FORMS (781A)
LOCAL OPERATING INSTRUCTIONS
APPLICABLE AFOSH STDS

CONDITIONS CUES:

CONDITION: APPROVED/AUTHORIZED WASH RACK

STANDARDS:

ORGANIZE WASH RACK OPERATIONS TO INSURE A SMOOTH TRANSITION OF MAINTENANCE PERSONNEL, MEETING AFOSH REQUIREMENTS, AND AIRCRAFT CLEANING IS COMPLETED IAW T.O.

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	A0018	2.18	16	17	22	37	5.40	7
427X1	G0243	4.06	36	39	37	25	3.88	12
427X1	G0244	4.12	73	71	65	48	2.95	13
427X1	G0301	2.14	23	24	22	15	3.57	7
427X1	G0302	2.16	45	44	39	27	2.65	5
427X1	H0326	6.69	67	70	71	69	5.51	18
427X1	I0347	2.35	16	19	22	28	5.48	7
427X1	I0348	1.90	7	7	11	9	5.20	2
427X1	I0349	3.51	19	22	25	26	4.88	11
427X1	I0350	3.71	18	20	23	24	4.77	11
427X1	I0353	2.92	12	13	14	11	4.72	7
427X1	I0354	3.47	17	16	18	15	4.68	7
427X1	I0355	4.02	27	27	29	21	4.37	11
427X1	I0357	3.37	25	26	26	18	4.03	7
427X1	I0364	4.08	39	37	38	33	4.56	12
427X1	I0366	2.04	21	21	21	13	3.22	2
427X1	K0472	3.57	61	63	60	54	4.75	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

A0018 COORDINATE WASH RACK ACTIVITIES
 CONDUCT SAFETY BRIEFING FOR WASH PERSONNEL
 I0350 INSPECT AIRCRAFT FOR SAFETY PROCEDURE COMPLIANCE PRIOR TO
 WASHING
 I0354 PERFORM SAFETY SET UP OF AIRCRAFT PRIOR TO WASHING
 G0244 ATTACH STATIC GROUNDS
 MASK OFF AIRCRAFT IAW -23 SERIES T.O.
 I0355 PREPARE AIRCRAFT CLEANING SOLUTIONS FOR APPLICATION
 I0357 SET UP AIRCRAFT WASHING EQUIPMENT
 G0243 ATTACH RESTRAINT OR SAFETY HARNESSSES (AS NEEDED)
 INSURE WATER SUPPLY IS AVAILABLE AND HOT WATER WHERE REQUIRED
 I0347 COORDINATE WASH RACK OPERATIONS
 I0353 OPERATE AIRCRAFT WASHERS (INSURING PROPER CLEANING SEQUENCE)
 I0349 INSPECT AIRCRAFT FOR SAFETY PROCEDURE COMPLIANCE DURING WASHING
 I0364 INSPECT AIRCRAFT SURFACES VISUALLY FOR CLEANLINESS
 K0472 DETERMINE METAL SURFACE CLEANLINESS BY VISUAL INSPECTIONS
 ANNOTATE AIRCRAFT FORMS
 I0366 WASH DOWN AIRCRAFT WASHING AREAS
 I0348 DISASSEMBLE AIRCRAFT WASHING EQUIPMENT
 G0301 REMOVE RESTRAINT OR SAFETY HARNESSSES
 G0302 REMOVE STATIC GROUNDS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE STANDARD MEASURING INSTRUMENTS
APPLY MASKING MATERIALS
APPLY SOLVENTS
USE VACUUM CLEANERS
I0353 OPERATE AIRCRAFT WASHERS
USE STEAM CLEANING EQUIPMENT
USE EMERGENCY EYE WASH/SHOWERS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
H0326 IDENTIFY TYPES/CHARACTERISTICS OF CORROSION
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF PLASTICS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE
MATERIALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED
STRUCTURES
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS
MATERIALS
SELECT COMMON HANDTOOLS
SELECT SPECIAL TOOLS
RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
SELECT SOLVENTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
INTERPRET GAGES OR METERS
SELECT MASKING MATERIALS
SELECT PROTECTIVE COATINGS
RECOGNIZE CAPABILITIES/APPLICATIONS OF AIRCRAFT WASHERS
RECOGNIZE CAPABILITIES/APPLICATIONS OF STEAM CLEANING EQUIPMENT
ANNOTATE AIRCRAFT FORMS

TASK #: 00770

REMOVE CORROSION MECHANICALLY

EQUIPMENT:

CARBIDE TIP SCRAPER
SCRAPERS
BROOMS/MOPS
BUCKET
VACUUM BLASTER
VACUUM CLEANER
ABRASIVE BLASTERS
WIRE BRUSHES/WHEELS
ABRASIVE PAPER/MAT
METALLIC WOOLS
GRINDING WHEEL
ABRASIVE WHEEL
WORKBENCH
SAFETY HARNESS
PUMICE PASTE
DRILLS
GRINDERS
SANDERS
BUFFING PADS
GROUND CABLES
SOLVENT
BUFFERS
ROTARY FILES
EAR PROTECTION
EYE PROTECTION
MAGNIFYING GLASS
GLOVES (LEATHER/RUBBER/COTTON)
FLAP WHEELS
GRINDING STONES
FILES
ABRASIVE CLOTH
COVERALLS (PAPER/WOVEN FIBER)
RESPIRATOR/DUST MASK
POWER SUPPLY
DE-SCALERS
SANDING BLOCK
DIAL INDICATOR
MICROMETER
PIT DEPTH GAGE

REFERENCES:

AIRCRAFT FORMS
T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
T.O. 1-1-2 (CORROSION PREVENTION AND CONTROL FOR AEROSPACE EQUIPMENT)
SEC V
APPLICABLE AIRCRAFT -3, -6, AND -23 T.O.
AFOSH STD 161 SERIES

CONDITIONS CUES:

CONDITION: FLIGHTLINE, HANGER, OR IN SHOP

CUE: PERFORMED AFTER INSPECTION IDENTIFIES PRESENCE OF CORROSION

STANDARDS:

COMPLETE REMOVAL IAW T.O. 1-1-2

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	G0243	4.06	36	39	37	25	3.88	12
427X1	G0244	4.12	73	71	65	48	2.95	13
427X1	G0301	2.14	23	24	22	15	3.57	7
427X1	G0302	2.16	45	44	39	27	2.65	5
427X1	H0323	6.29	63	66	67	69	6.14	18
427X1	H0326	6.69	67	70	71	69	5.51	18
427X1	J0370	5.67	45	46	49	55	6.58	12
427X1	J0394	2.10	6	7	8	9	3.67	7
427X1	J0395	4.24	59	58	55	39	4.23	18
427X1	J0396	4.41	68	70	66	50	4.28	18
427X1	J0397	3.80	20	21	23	23	4.30	11
427X1	J0398	2.78	18	20	20	13	4.21	7
427X1	J0399	.80	4	5	4	2	5.32	2
427X1	J0400	.65	2	2	2	1	5.20	2
427X1	J0401	.78	3	4	4	2	5.23	2
427X1	J0402	.80	5	7	5	2	5.23	2
427X1	J0403	.65	2	2	2	1	5.23	2
427X1	J0404	.76	4	3	2	2	5.40	2
427X1	J0405	.73	3	3	3	3	5.10	2
427X1	J0406	3.69	61	55	52	35	4.55	18
427X1	J0407	2.39	10	11	12	13	4.39	7
427X1	J0408	4.25	77	80	76	54	4.24	18
427X1	J0409	3.55	34	33	28	24	5.86	12
427X1	J0410	2.98	21	20	19	12	4.54	7
427X1	J0411	2.33	8	8	6	3	4.84	7
427X1	J0412	5.39	50	52	49	35	5.32	18
427X1	J0413	3.25	12	13	12	11	5.11	7
427X1	J0414	4.43	40	42	43	42	5.12	12
427X1	J0415	5.53	55	59	58	44	5.56	18
427X1	J0416	4.67	21	25	27	27	5.81	11
427X1	J0417	5.39	80	80	75	55	5.24	18
427X1	J0418	2.24	3	2	2	2	4.72	7
427X1	J0419	3.69	14	14	13	13	5.26	11
427X1	J0420	5.04	46	47	44	28	5.51	12
427X1	J0421	3.41	36	35	34	23	4.55	15
427X1	J0422	3.88	7	10	12	12	5.48	11
427X1	J0423	2.41	18	19	20	17	3.25	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

G0244 ATTACH STATIC GROUNDS
SET UP FOR CORROSION REMOVAL
- DETERMINE TYPE OF METAL
- DETERMINE TYPE OF CORROSION
H0323 - SELECT SEVERITY OF CORROSION
J0370 - SELECT CORROSION REMOVAL LIMITS
- DETERMINE METAL THICKNESS FROM T.O. AND AIRCRAFT FORMS
- SELECT REMOVAL TOOLING AND ATTACHMENTS FOR POWERED TOOLS
DON SAFETY EQUIPMENT
REMOVE CORROSION FROM METAL SURFACES USING SELECTED TOOLING
EXAMINE SURFACE FOR COMPLETE CORROSION REMOVAL
VERIFY METAL THICKNESS AT REMOVAL AREA
REMOVE ADDITIONAL .002 INCH OF METAL FROM SURFACE
CLEAN UP WORK AREA

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE PNEUMATIC DRILLS
USE PNEUMATIC DUAL ACTION SANDERS
OPERATE HAND-HELD GRINDERS
USE WIRE BRUSHES/WHEELS
USE ROTARY FILES/FLAP WHEELS
USE ABRASIVE PAPER
USE STANDARD MEASURING INSTRUMENTS
USE DIAL INDICATOR
USE MICROMETER
USE PIT DEPTH GAGE
APPLY SOLVENTS
USE VACUUM CLEANERS
OPERATE ABRASIVE BLASTERS
USE VACUUM BLASTERS
USE SANDING BLOCKS
USE METALLIC WOOLS
USE SCRAPERS
USE HAND FILES
USE PUMICE PASTES
USE MAGNIFYING GLASSES
USE SHOP CLEANUP TOOLS
OPERATE HAND-HELD BUFFERS
USE NEEDLE DE-SCALERS
USE ABRASIVE WHEELS
USE GRINDING WHEELS
USE BUFFING PADS
USE GRINDING STONES
USE MC-2A (LOW PACK)
USE IN SHOP AIR REGULATOR

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
SELECT METAL THICKNESS FROM T.O. AND A/C FORMS
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
H0326 RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
IDENTIFY TYPES/CHARACTERISTICS OF CORROSION
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT COMMON HANDTOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT GRINDING WHEELS
SELECT WIRE BRUSHES/WHEELS
SELECT ROTARY FILES/FLAP WHEELS
SELECT ABRASIVE PAPER
SELECT COMMON HARDWARE
SELECT COMMON FASTENERS
SELECT PRECISION MEASURING INSTRUMENTS
SELECT SOLVENTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
RECOGNIZE CAPABILITIES/APPLICATIONS OF VACUUM BLASTERS
RECOGNIZE CAPABILITIES/APPLICATIONS OF ABRASIVE BLASTERS
INTERPRET AIRCRAFT FORMS (781 SERIES)
SELECT POWER TOOL ATTACHMENTS

RELATED TASKS

G0243 ATTACH RESTRAINT OR SAFETY HARNESES
G0301 REMOVE RESTRAINT OR SAFETY HARNESES
G0302 REMOVE STATIC GROUNDS
J0394 REMOVE CORROSION RESIDUE USING VACUUM CLEANERS
J0395 REMOVE CORROSION USING ABRASIVE MATS
J0396 REMOVE CORROSION USING ABRASIVE PAPER OR CLOTH
J0397 REMOVE CORROSION USING ALUMINUM OXIDE PADS
J0398 REMOVE CORROSION USING CARBIDE TIPPED SCRAPERS
J0399 REMOVE CORROSION USING ELECTRIC ABRASIVE WHEELS
J0400 REMOVE CORROSION USING ELECTRIC BUFFERS
J0401 REMOVE CORROSION USING ELECTRIC DRILLS
J0402 REMOVE CORROSION USING ELECTRIC GRINDERS
J0403 REMOVE CORROSION USING ELECTRIC GRINDING STONES
J0404 REMOVE CORROSION USING ELECTRIC ROTARY FILES
J0405 REMOVE CORROSION USING ELECTRIC SANDERS
J0406 REMOVE CORROSION USING HAND ABRASIVES
J0407 REMOVE CORROSION USING HAND FILES
J0408 REMOVE CORROSION USING HAND WIRE BRUSHES
J0409 REMOVE CORROSION USING HIGH-SPEED DIE GRINDERS
J0410 REMOVE CORROSION USING METALLIC WOOLS
J0411 REMOVE CORROSION USING NEEDLE DE-SCALERS
J0412 REMOVE CORROSION USING PNEUMATIC ABRASIVE WHEELS
J0413 REMOVE CORROSION USING PNEUMATIC BUFFERS
J0414 REMOVE CORROSION USING PNEUMATIC DRILLS
J0415 REMOVE CORROSION USING PNEUMATIC GRINDERS
J0416 REMOVE CORROSION USING PNEUMATIC ROTARY FILES

J0417 REMOVE CORROSION USING PNEUMATIC SANDERS
J0418 REMOVE CORROSION USING PUMICE PASTES
J0419 REMOVE CORROSION USING ROTARY FLAP WHEELS
J0420 REMOVE CORROSION USING SAND BLASTERS
J0421 REMOVE CORROSION USING SCRAPERS
J0422 REMOVE CORROSION USING VACUUM BLASTERS
J0423 REMOVE FOREIGN MATERIALS USING VACUUM CLEANERS

TASK #: 06780

REMOVE CORROSION CHEMICALLY

EQUIPMENT:

MASKING MATERIALS
MEASURING EQUIPMENT
EMERGENCY EYE WASH/SHOWER
COVERALLS
RESPIRATOR
EYE PROTECTION
GLOVES
APRON
RUBBER BUCKETS
RAGS
BRUSHES
DISPOSAL CONTAINERS
ABRASIVE MATS
SOLVENTS
NEUTRALIZING AGENTS
COMMON HANDTOOLS

REFERENCES:

T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
T.O. 1-1-2 (CORROSION PREVENTION AND CONTROL FOR AEROSPACE EQUIPMENT)
APPLICABLE AIRCRAFT -3 AND -23 T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE, HANGER, OR IN SHOP

STANDARDS:

REMOVE CORROSION DEPOSITS COMPLETELY WITHOUT DAMAGING SURROUNDING
MATERIALS

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	G0243	4.06	36	39	37	25	3.88	12
427X1	G0286	5.25	80	82	78	53	4.57	18
427X1	G0301	2.14	23	24	22	15	3.57	7
427X1	H0326	6.69	67	70	71	69	5.51	18
427X1	I0358	1.78	1	2	2	3	5.57	2
427X1	J0373	3.80	25	24	23	15	6.02	11
427X1	J0374	3.39	15	14	14	7	6.08	7
427X1	J0375	3.00	5	6	8	8	5.87	7
427X1	J0376	4.18	12	16	18	19	5.74	11
427X1	J0377	3.33	6	8	9	8	5.87	7
427X1	J0378	3.45	7	9	10	8	5.97	7
427X1	J0379	4.39	22	23	26	21	5.77	11
427X1	J0380	3.00	5	4	5	3	6.18	7
427X1	J0381	3.12	4	3	4	3	6.19	7
427X1	J0382	2.14	3	2	3	2	5.24	7
427X1	J0383	2.57	2	2	3	2	5.86	7
427X1	J0385	4.65	24	27	28	30	5.41	11
427X1	J0386	3.57	10	8	8	6	5.62	11
427X1	J0387	2.57	2	2	3	3	5.75	7
427X1	J0388	3.22	8	9	9	8	5.50	7
427X1	J0389	3.53	15	16	17	12	5.71	11
427X1	J0390	3.69	6	10	13	15	5.45	11
427X1	J0391	2.57	4	3	4	3	5.80	7
427X1	J0392	2.69	5	4	5	4	5.99	7
427X1	J0393	2.71	2	2	3	2	5.95	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

ENSURE MATERIAL TO BE TREATED AND REMOVING COMPOUND ARE
COMPATABLE

MASK AREAS

DON PROTECTIVE EQUIPMENT

APPLY REMOVING COMPOUND

AGITATE COMPOUND (IF REQUIRED)

WIPE SURFACE CLEAN TO CHECK PROGRESS (REPEAT PROCESS IF
NECESSARY)

REMOVE BARRIER MATERIALS

DISPOSE OF WASTE MATERIALS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE STANDARD MEASURING INSTRUMENTS
OPERATE WEIGHT MEASURING SCALES
APPLY MASKING MATERIALS
APPLY SOLVENTS
APPLY NEUTRALIZING AGENTS
IDENTIFY METALS
USE ABRASIVE PAPER

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
H0326 IDENTIFY TYPES/CHARACTERISTICS OF CORROSION
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED
STRUCTURES
SELECT COMMON HANDTOOLS
SELECT ABRASIVE PAPER
SELECT WEIGHT MEASURING SCALES
RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
SELECT SOLVENTS
SELECT NEUTRALIZING AGENTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT MASKING MATERIALS

RELATED TASKS

G0243 ATTACH RESTRAINT OR SAFETY HARNESES
G0286 PREPARE CORROSION CONTROL MATERIALS PRIOR TO JOB PERFORMANCE
G0301 REMOVE RESTRAINT OR SAFETY HARNESES
I0358 SET UP PHOSPHORIC ACID FOR CLEANING AIRCRAFT
J0373 PREPARE CHROMIC ACID PICKLE SOLUTION FOR MAGNESIUM
J0374 PREPARE CHROMIUM TRIOXIDE FOR ALUMINUM
J0375 PREPARE MIL-C-10578 METAL CONDITIONER AND RUST REMOVER FOR USE ON
COPPER
J0376 PREPARE MIL-C-10578 METAL CONDITIONER AND RUST REMOVER FOR USE ON
FERROUS METALS
J0377 PREPARE MIL-C-10578 METAL CONDITIONER AND RUST REMOVER FOR USE ON
STAINLESS STEEL
J0378 PREPARE MIL-C-14460 CORROSION REMOVING COMPOUND FOR FERROUS METALS
J0379 PREPARE MIL-C-38334 CORROSION REMOVING COMPOUND FOR ALUMINUM
J0380 PREPARE NITRIC HYDROFLUORIC ACID SOLUTION FOR STAINLESS STEEL
J0381 PREPARE NITRIC HYDROFLUORIC ACID SOLUTION FOR TITANIUM
J0382 PREPARE PUMICE PASTES
J0383 PREPARE SULFURIC ACID SOLUTIONS FOR COPPER AND COPPER ALLOYS

J0385 REMOVE CORROSION FROM ALUMINUM USING MIL-C-38334 CORROSION
REMOVING COMPOUND
J0386 REMOVE CORROSION FROM ALUMINUM USING PASA-JELL 102
J0387 REMOVE CORROSION FROM COPPER OR COPPER ALLOYS USING SULFURIC ACID
SOLUTIONS
J0388 REMOVE CORROSION FROM FERROUS METALS USING MIL-C-14460 CORROSION
REMOVING COMPOUND
J0389 REMOVE CORROSION FROM MAGNESIUM USING CHROMIC ACID PICKLE
SOLUTIONS
J0390 REMOVE CORROSION FROM METALS USING MIL-C-10578 METAL CONDITIONER
AND RUST REMOVER
J0391 REMOVE CORROSION FROM STAINLESS STEEL USING NITRIC HYDROFLUORIC
ACID SOLUTIONS
J0392 REMOVE CORROSION FROM STAINLESS STEEL USING PASA-JELL 101
J0393 REMOVE CORROSION FROM TITANIUM USING NITRIC HYDROFLUORIC ACID
SOLUTIONS

TASK #: 00790

REMOVE PROTECTIVE COATINGS MECHANICALLY

NOTES:

EQUIPMENT USED WILL VARY DEPENDING ON SURFACE MATERIAL (METAL, COMPOSITE, FIBERGLASS)

EQUIPMENT:

MASKING MATERIALS
COMMON HANDTOOLS
SCRAPERS
VACUUM BLASTER
ABRASIVE BLASTERS
WIRE BRUSHES/WHEELS
ABRASIVE PAPER/MAT
METALLIC WOOLS
SAFETY HARNESS
WORK BENCH
DRILLS
GRINDERS
SANDERS
BUFFING WHEELS
GROUND CABLES
BUFFERS
EAR PROTECTION
EYE PROTECTION
EMERGENCY EYE WASH/SHOWER
LEATHER GLOVES
FLAP WHEELS
FILES
ABRASIVE CLOTH
COVERALLS
RESPIRATOR/DUST MASK
POWER SUPPLY
SOLVENT
VACUUM CLEANER

REFERENCES:

T.O. 1-1-2 (CORROSION PREVENTION AND CONTROL FOR AEROSPACE EQUIPMENT)
T.O. 1-1-8 (APPLICATION OF ORGANIC COATINGS)
T.O. 1-1-690 (GENERAL ADVANCED COMPOSITE REPAIR MANUAL)
APPLICABLE AIRCRAFT -23 T.O.
AFOSH STD (161 SERIES)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

REMOVE TOP COAT AND PRIMER WITHOUT GOUGING AND ABRADING THE SURFACE

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	G0243	4.06	36	39	37	25	3.88	12
427X1	G0244	4.12	73	71	65	48	2.95	13
427X1	G0298	3.88	49	51	52	31	3.62	18
427X1	G0299	4.16	38	42	42	31	4.70	12
427X1	G0301	2.14	23	24	22	15	3.57	7
427X1	G0302	2.16	45	44	39	27	2.65	5
427X1	J0372	4.20	54	57	56	59	5.64	18
427X1	J0384	2.02	7	7	8	7	3.59	2
427X1	J0424	3.06	30	31	31	20	4.86	15
427X1	J0425	3.12	33	33	32	21	5.50	15
427X1	J0434	.75	3	3	2	1	5.15	2
427X1	J0435	.55	3	3	3	2	5.16	2
427X1	J0436	.49	1	2	2	1	5.33	2
427X1	J0437	.59	2	3	4	1	5.29	2
427X1	J0438	.69	3	5	5	1	5.19	2
427X1	J0439	.55	3	2	2	1	5.37	2
427X1	J0440	.55	4	4	3	3	5.14	2
427X1	J0441	3.71	55	54	50	35	4.60	18
427X1	J0442	2.94	70	72	63	41	4.70	17
427X1	J0443	2.20	17	17	16	6	4.56	7
427X1	J0444	1.57	7	8	6	1	4.80	2
427X1	J0446	4.14	5	5	5	3	5.48	11
427X1	J0447	3.86	33	38	38	30	5.32	12
427X1	J0448	2.51	9	10	9	5	5.33	7
427X1	J0449	3.29	29	30	31	26	5.58	15
427X1	J0450	3.47	44	48	47	35	5.62	15
427X1	J0451	2.51	10	15	15	12	5.71	7
427X1	J0452	4.86	84	86	80	55	5.19	18
427X1	J0453	2.76	12	12	11	10	5.43	7
427X1	J0454	4.29	41	40	37	23	5.44	12
427X1	J0455	2.86	48	51	48	31	4.58	17
427X1	J0458	3.45	7	7	9	9	5.33	7
427X1	J0460	3.75	26	32	36	40	5.01	12
427X1	S0849	2.02	14	15	12	12	6.16	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

SET UP FOR PROTECTIVE COATING REMOVAL

- IDENTIFY TYPE OF SURFACE

- SELECT TOOLING AND ATTACHMENTS FOR POWERED TOOLS

DON SAFETY EQUIPMENT

CLEAN SURFACE

ABRADE FINISH DOWN TO PRIMER USING SELECTED TOOLING

ABRADE PRIMER USING FINE GRADE ABRASIVE

J0384 REMOVE PROTECTIVE COATING RESIDUE USING VACUUM CLEANERS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE PNEUMATIC DRILLS
USE PNEUMATIC SANDERS
OPERATE HAND-HELD GRINDERS
USE WIRE BRUSHES/WHEELS
USE ABRASIVE PAPER
USE MACHINE GUARDS
APPLY MASKING MATERIALS
APPLY SOLVENTS
USE VACUUM CLEANERS
OPERATE ABRASIVE BLASTERS
USE VACUUM BLASTERS
IDENTIFY METALS
USE EMERGENCY EYE WASH/SHOWERS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF PLASTICS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE MATERIALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED STRUCTURES
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS MATERIALS
SELECT COMMON HANDTOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT WIRE BRUSHES/WHEELS
SELECT ABRASIVE PAPER
SELECT CLAMPS
SELECT WORKPIECE HOLDING DEVICES
SELECT SOLVENTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
SELECT MASKING MATERIALS
SELECT PROTECTIVE COATINGS
RECOGNIZE CAPABILITIES/APPLICATIONS OF VACUUM BLASTERS
RECOGNIZE CAPABILITIES/APPLICATIONS OF ABRASIVE BLASTERS

RELATED TASKS

G0243 ATTACH RESTRAINT OR SAFETY HARNESES
G0244 ATTACH STATIC GROUNDS
G0298 REMOVE PAINT OVERSPRAY FROM LANDING GEAR STRUTS
G0299 REMOVE PAINT OVERSPRAY FROM PLASTIC SURFACES
G0301 REMOVE RESTRAINT OR SAFETY HARNESES
G0302 REMOVE STATIC GROUNDS
J0372 IDENTIFY PROTECTIVE COATINGS BY VISUAL INSPECTIONS
J0424 REMOVE PROTECTIVE COATINGS FROM RADOME SURFACES USING HAND SANDING
J0425 REMOVE PROTECTIVE COATINGS FROM RADOME SURFACES USING MECHANICAL
SANDING
J0434 REMOVE PROTECTIVE COATINGS USING CHIPPING HAMMERS
J0435 REMOVE PROTECTIVE COATINGS USING ELECTRIC ABRASIVE WHEELS
J0436 REMOVE PROTECTIVE COATINGS USING ELECTRIC BUFFERS
J0437 REMOVE PROTECTIVE COATINGS USING ELECTRIC DRILLS
J0438 REMOVE PROTECTIVE COATINGS USING ELECTRIC GRINDERS
J0439 REMOVE PROTECTIVE COATINGS USING ELECTRIC ROTARY FILES
J0440 REMOVE PROTECTIVE COATINGS USING ELECTRIC SANDERS
J0441 REMOVE PROTECTIVE COATINGS USING HAND ABRASIVES
J0442 REMOVE PROTECTIVE COATINGS USING HAND WIRE BRUSHES
J0443 REMOVE PROTECTIVE COATINGS USING METALLIC WOOLS
J0444 REMOVE PROTECTIVE COATINGS USING NEEDLE DE-SCALERS
J0446 REMOVE PROTECTIVE COATINGS USING PLASTIC MEDIA BLASTING
J0447 REMOVE PROTECTIVE COATINGS USING PNEUMATIC ABRASIVE WHEELS
J0448 REMOVE PROTECTIVE COATINGS USING PNEUMATIC BUFFERS
J0449 REMOVE PROTECTIVE COATINGS USING PNEUMATIC DRILLS
J0450 REMOVE PROTECTIVE COATINGS USING PNEUMATIC GRINDERS
J0451 REMOVE PROTECTIVE COATINGS USING PNEUMATIC ROTARY FILES
J0452 REMOVE PROTECTIVE COATINGS USING PNEUMATIC SANDERS
J0453 REMOVE PROTECTIVE COATINGS USING ROTARY FLAP WHEELS
J0454 REMOVE PROTECTIVE COATINGS USING SAND BLASTERS
J0455 REMOVE PROTECTIVE COATINGS USING SCRAPERS
J0458 REMOVE PROTECTIVE COATINGS USING VACUUM BLASTERS
J0460 RESEARCH TECHNICAL DATA TO IDENTIFY PROTECTIVE COATINGS
S0849 REMOVE PROTECTIVE COATINGS FROM COMPOSITE SURFACES

TASK #: 00800

REMOVE PROTECTIVE COATINGS CHEMICALLY

EQUIPMENT:

MASKING MATERIALS
DIP TANKS
CONTAINERS
SCRAPERS
BRUSHES
MEASURING INSTRUMENTS
RAGS
PHENOLIC SCRAPERS
SOLVENTS
EYE PROTECTION
RESPIRATOR
ACID PROOF GLOVES/APRON
EMERGENCY EYE WASH/SHOWER

REFERENCES:

T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
T.O. 1-1-8 (APPLICATION OF ORGANIC COATINGS)
T.O. 1-1-24 (MAINTENANCE, REPAIR, AND ELECTRICAL REQUIREMENTS FOR
FIBERGLASS AIRBORNE RADOMES)
APPLICABLE AIRCRAFT -3 AND -23 T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE, HANGER, OR IN SHOP

STANDARDS:

REMOVE PROTECTIVE COATINGS WITHOUT DAMAGING THE SURFACE

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	G0243	4.06	36	39	37	25	3.88	12
427X1	G0298	3.88	49	51	52	31	3.62	18
427X1	G0299	4.16	38	42	42	31	4.70	12
427X1	G0301	2.14	23	24	22	15	3.57	7
427X1	J0371	2.84	12	12	14	14	6.27	7
427X1	J0372	4.20	54	57	56	59	5.64	18
427X1	J0426	3.16	36	39	37	23	5.51	15
427X1	J0427	3.04	8	7	8	7	6.03	7
427X1	J0428	2.24	4	3	3	5	5.79	7
427X1	J0429	3.69	29	30	31	20	5.59	12
427X1	J0430	3.39	13	15	14	11	5.66	7
427X1	J0431	1.92	3	1	1	1	6.12	2
427X1	J0432	2.27	8	7	7	6	5.56	7
427X1	J0433	2.27	6	6	7	7	5.68	7
427X1	J0445	5.57	81	83	76	59	5.51	18
427X1	J0456	3.61	44	46	43	28	4.92	12
427X1	J0457	4.08	59	62	59	43	4.78	18
427X1	J0460	3.75	26	32	36	40	5.01	12
427X1	K0486	2.82	38	34	34	32	5.23	15

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

MASK AREA TO BE STRIPPED
 ENSURE STRUCTURAL MATERIAL AND REMOVAL COMPOUND ARE
 COMPATABLE
 OBTAIN REMOVAL COMPOUND FOR PROTECTIVE COATING
 DON PROTECTIVE EQUIPMENT
 REMOVE COATINGS
 REMOVE CHEMICAL RESIDUE
 REMOVE MASKING MATERIALS
 DISPOSE OF CHEMICAL WASTE
 CLEAN SURROUNDING AREA

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
 USE COMMON HANDTOOLS
 USE WIRE BRUSHES/WHEELS
 USE STANDARD MEASURING INSTRUMENTS
 OPERATE WEIGHT MEASURING SCALES
 APPLY MASKING MATERIALS
 APPLY SOLVENTS
 IDENTIFY METALS
 APPLY NEUTRALIZING AGENTS
 USE EMERGENCY EYE WASH/SHOWERS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF PLASTICS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE MATERIALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED STRUCTURES
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS MATERIALS
SELECT COMMON HANDTOOLS
SELECT WIRE BRUSHES/WHEELS
SELECT WEIGHT MEASURING SCALES
RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
SELECT SOLVENTS
SELECT NEUTRALIZING AGENTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT MASKING MATERIALS
SELECT PROTECTIVE COATINGS

RELATED TASKS

G0243 ATTACH RESTRAINT OR SAFETY HARNESES
G0298 REMOVE PAINT OVERSPRAY FROM LANDING GEAR STRUTS
G0299 REMOVE PAINT OVERSPRAY FROM PLASTIC SURFACES
G0301 REMOVE RESTRAINT OR SAFETY HARNESES
J0371 IDENTIFY PROTECTIVE COATINGS BY CHEMICAL METHODS
J0372 IDENTIFY PROTECTIVE COATINGS BY VISUAL INSPECTIONS
J0426 REMOVE PROTECTIVE COATINGS FROM RADOME SURFACES USING METHYL-ETHYL-KETONE
J0427 REMOVE PROTECTIVE COATINGS FROM RADOME SURFACES USING METHYL-ETHYL-KETONE/DIMETHYLFORMANIDE AND ATTAPULGUS CLAY
J0428 REMOVE PROTECTIVE COATINGS FROM RADOME SURFACES USING METHYL-ETHYL-KETONE/DIMETHYLFORMANIDE AND ATTASORB
J0429 REMOVE PROTECTIVE COATINGS FROM RADOME SURFACES USING METHYL-ETHYL-KETONE/TOLUENE
J0430 REMOVE PROTECTIVE COATINGS FROM RADOME SURFACES USING PAINT REMOVER, MIL-R-25134
J0431 REMOVE PROTECTIVE COATINGS FROM RADOME SURFACES USING PLASTER OF PARIS AND TETRA-ETHYLENE GLYCOL DIMETHYL ETHER
J0432 REMOVE PROTECTIVE COATINGS USING ALKALIES
J0433 REMOVE PROTECTIVE COATINGS USING CAUSTICS
J0445 REMOVE PROTECTIVE COATINGS USING PAINT REMOVERS
J0456 REMOVE PROTECTIVE COATINGS USING SOLVENTS
J0457 REMOVE PROTECTIVE COATINGS USING THINNERS
J0460 RESEARCH TECHNICAL DATA TO IDENTIFY PROTECTIVE COATINGS
K0486 INSPECT METAL FOR STRIPPING

TASK #: 00810
APPLY PASSIVATION SOLUTIONS

EQUIPMENT:

MASKING MATERIALS
EYE PROTECTION
RESPIRATOR
GLOVES
APRON
SOLVENT
NEUTRALIZING AGENT
EMERGENCY EYE WASH/SHOWER
BRUSHES
WATER SUPPLY (FOR FLUSHING AREA)
CONTAINERS
COMMON HANDTOOLS
MEASURING INSTRUMENTS

REFERENCES:

T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
T.O. 1-1-2 (CORROSION PREVENTION AND CONTROL FOR AEROSPACE EQUIPMENT)
APPLICABLE AIRCRAFT -3 AND -23 T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE, HANGER, OR IN SHOP
CUE: PERFORMED ON BARE METAL PRIOR TO APPLYING PRIMERS OR PROTECTIVE
COATINGS

STANDARDS:

PASSIVATION SOLUTION APPLIED UNIFORMLY WITHOUT RUNS OR SAGS

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	G0243	4.06	36	39	37	25	3.88	12
427X1	G0301	2.14	23	24	22	15	3.57	7
427X1	G0304	4.33	19	23	26	32	5.03	11
427X1	I0341	4.31	14	17	17	14	5.45	11
427X1	I0342	4.51	19	20	22	18	4.83	11
427X1	I0352	5.51	40	42	40	33	5.25	12
427X1	K0461	4.39	26	26	29	31	5.14	11
427X1	K0462	3.43	12	12	14	15	5.08	7
427X1	K0463	3.57	19	19	19	13	5.49	11
427X1	K0464	4.51	37	32	33	29	4.96	12
427X1	K0465	3.96	18	18	19	16	4.97	11
427X1	K0466	3.69	19	17	17	13	5.20	11
427X1	K0467	3.12	5	6	8	5	5.33	7
427X1	K0468	3.02	7	6	7	5	5.46	7
427X1	K0469	3.14	9	7	6	3	5.24	7
427X1	K0470	2.00	3	2	2	1	5.41	2
427X1	K0473	4.10	24	28	31	27	4.84	11
427X1	K0487	3.18	23	22	22	20	5.17	7
427X1	K0488	3.18	14	11	12	10	5.20	7
427X1	K0489	3.00	6	4	5	4	5.08	7
427X1	K0490	4.41	18	21	23	21	5.55	11
427X1	K0491	3.63	15	14	16	11	5.78	11
427X1	K0492	2.98	5	4	5	3	5.68	7
427X1	K0493	3.63	36	33	34	27	3.82	12

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

ENSURE METAL TO BE TREATED AND PASIVATION SOLUTION ARE
 COMPATIBLE
 OBTAIN PASSIVATION SOLUTION
 DON PROTECTIVE EQUIPMENT
 CLEAN SURFACE
 MASK AREA TO BE TREATED
 APPLY PASSIVATION COMPOUND
 - USE DWELL TIME IAW MANUFACTURE'S INSTRUCTIONS
 K0493 - RINSE PASSIVATED METALS
 DISPOSE OF WASTE

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
 USE COMMON HANDTOOLS
 USE STANDARD MEASURING INSTRUMENTS
 OPERATE WEIGHT MEASURING SCALES
 APPLY MASKING MATERIALS
 APPLY SOLVENTS
 APPLY NEUTRALIZING AGENTS
 APPLY PASSIVATING SOLUTIONS

IDENTIFY METALS
USE EMERGENCY EYE WASH/SHOWERS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT COMMON HANDTOOLS
SELECT WEIGHT MEASURING SCALES
RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
SELECT SOLVENTS
SELECT NEUTRALIZING AGENTS
SELECT PASSIVATION SOLUTIONS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT MASKING MATERIALS

RELATED TASKS

G0243 ATTACH RESTRAINT OR SAFETY HARNESES
G0301 REMOVE RESTRAINT OR SAFETY HARNESES
G0304 RESEARCH TECHNICAL DATA TO SELECT NECESSARY NEUTRALIZING AGENTS
I0341 APPLY ACID TO NEUTRALIZE AREAS
I0342 APPLY SODIUM BICARBONATE TO NEUTRALIZE AREAS
I0352 MIX ALODINE SOLUTIONS
K0461 APPLY CHROMATE CONVERSION COATINGS USING BRUSH METHODS
K0462 APPLY CHROMATE CONVERSION COATINGS USING DIP METHODS
K0463 APPLY CHROMATE CONVERSION COATINGS USING SPRAY METHODS
K0464 APPLY PASSIVATING SOLUTIONS TO ALUMINUM USING BRUSH METHOD
K0465 APPLY PASSIVATING SOLUTIONS TO ALUMINUM USING DIP METHODS
K0466 APPLY PASSIVATING SOLUTIONS TO MAGNESIUM OR MAGNESIUM ALLOYS USING
BRUSH METHODS
K0467 APPLY PASSIVATING SOLUTIONS TO MAGNESIUM OR MAGNESIUM ALLOYS USING
IMMERSION METHODS
K0468 APPLY PASSIVATING SOLUTIONS TO MAGNESIUM OR MAGNESIUM ALLOYS USING
SPRAY METHODS
K0469 APPLY PASSIVATING SOLUTIONS TO STAINLESS STEEL USING BRUSH METHODS
K0470 APPLY PASSIVATING SOLUTIONS TO STAINLESS STEEL USING SPRAY METHODS
K0473 SELECT METAL SURFACE CLEANLINESS USING WATER BREAK METHODS
K0487 NEUTRALIZE PASSIVATING SOLUTIONS FOR ALUMINUM
K0488 NEUTRALIZE PASSIVATING SOLUTIONS FOR MAGNESIUM
K0489 NEUTRALIZE PASSIVATING SOLUTIONS FOR STAINLESS STEEL
K0490 PREPARE CHROMATE CONVERSION COATINGS FOR APPLICATION
K0491 PREPARE PASSIVATING SOLUTIONS FOR APPLICATION ON MAGNESIUM OR
MAGNESIUM ALLOYS
K0492 PREPARE PASSIVATING SOLUTIONS FOR APPLICATION ON STAINLESS STEEL

TASK #: 00820

PREPARE SURFACES FOR PROTECTIVE COATINGS

EQUIPMENT:

SANDERS
GRINDER
ABRASIVE PAPER
RESPIRATOR
COVERALLS
EYE PROTECTION
EAR PROTECTION
GLOVES
BRUSHES
DUSTING GUN
VACUUM CLEANER
VACUUM BLASTER
ABRASIVE BLASTER
AIRCRAFT WASHERS
STEAM CLEANING EQUIPMENT
MASKING MATERIALS
COMMON HANDTOOLS
RAGS
TACK RAGS
PASSIVATION SOLUTION
SOLVENTS
AIR SOURCE

REFERENCES:

T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
T.O. 1-1-2 (CORROSION PREVENTION AND CONTROL FOR AEROSPACE EQUIPMENT)
T.O. 1-1-8 (APPLICATION OF ORGANIC COATINGS)
APPLICABLE AIRCRAFT -3 AND -23 T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE, HANGER, OR IN SHOP
CUE: PERFORMED WHEN WORKING WITH NEW BASE MATERIALS OR AFTER OLD COATINGS
ARE REMOVED FROM BASE MATERIAL

STANDARDS:

PREPARE SURFACE WITHOUT DAMAGE TO BASE MATERIAL

OSR SOURCE:

	JOB AFSC INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	G0239	5.96	95	95	90	69	3.85	18
427X1	G0243	4.06	36	39	37	25	3.88	12
427X1	G0244	4.12	73	71	65	48	2.95	13
427X1	G0246	3.57	19	22	21	13	3.88	11
427X1	G0287	4.45	85	85	80	55	4.40	18
427X1	G0288	1.24	2	3	3	1	4.77	2
427X1	G0289	1.24	6	8	7	2	4.81	2
427X1	G0290	1.51	6	6	5	2	4.74	2
427X1	G0291	3.08	15	17	17	14	4.98	7
427X1	G0292	5.18	60	63	61	47	5.05	18
427X1	G0293	3.94	21	21	18	15	4.95	11
427X1	G0294	5.86	88	91	88	63	5.02	18
427X1	G0297	4.47	92	93	89	66	3.43	18
427X1	G0301	2.14	23	24	22	15	3.57	7
427X5	K0301	2.40	8	8	8	7	4.29	2
427X1	G0302	2.16	45	44	39	27	2.65	5
427X1	H0326	6.69	67	70	71	69	5.51	18
427X1	I0343	3.33	59	59	56	32	4.31	17
427X1	I0344	3.14	34	38	35	18	4.31	15
427X1	I0345	1.33	1	1	1	1	5.44	2
427X1	I0346	1.84	2	2	3	3	4.69	2
427X1	I0353	2.92	12	13	14	11	4.72	7
427X1	I0359	2.53	9	11	11	7	4.22	7
427X1	I0360	2.29	7	9	10	8	4.10	7
427X1	I0361	1.37	1	2	2	2	4.37	2
427X1	I0362	1.27	1	2	2	2	4.43	2
427X1	I0363	3.45	13	15	15	16	4.96	7
427X1	I0367	1.49	9	9	10	7	3.93	2
427X1	I0368	2.08	35	36	33	19	3.59	15
427X1	I0369	1.80	22	24	22	15	3.55	2
427X1	J0446	4.14	5	5	5	3	5.48	11
427X1	J0459	2.84	57	59	57	34	4.05	17
427X1	K0496	3.82	81	81	76	53	3.72	18
427X1	K0497	4.25	81	79	76	53	3.75	18
427X1	K0500	2.57	28	29	29	23	3.64	7
427X1	K0501	2.92	53	54	55	35	3.30	17
427X1	K0502	3.78	57	58	59	43	3.68	18
427X1	K0503	4.37	84	81	80	60	3.73	18
427X1	L0533	1.43	4	4	4	3	4.39	2
427X1	L0534	2.10	17	17	15	8	5.30	7
427X1	L0576	2.16	13	12	12	10	4.33	7
427X1	L0597	2.16	6	7	8	8	4.51	7
427X1	L0606	2.67	36	37	32	25	4.33	15
427X1	L0607	3.20	48	51	50	38	4.15	17
427X1	L0609	3.51	59	62	62	47	3.95	18
427X1	M0641	2.82	74	75	69	48	3.06	17
427X1	M0662	1.61	74	74	69	46	2.52	6
427X1	S0843	1.92	13	14	10	11	5.75	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

ENSURE SURFACE AND PROTECTIVE COATING ARE COMPATIBLE
DON PROTECTIVE EQUIPMENT
MASK OFF AREA TO BE PREPARED (IF REQUIRED)
PREPARE SURFACE
CLEAN SURFACE
PASSIVATE ANY DAMAGED METAL SURFACE
DISPOSE OF WASTE MATERIALS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE PNEUMATIC SANDERS
USE PNEUMATIC DUSTING GUNS
OPERATE HAND-HELD GRINDERS
USE WIRE BRUSHES/WHEELS
USE ROTARY FILES/FLAP WHEELS
USE ABRASIVE PAPER
APPLY MASKING MATERIALS
APPLY SOLVENTS
USE VACUUM CLEANERS
OPERATE ABRASIVE BLASTERS
APPLY PASSIVATING SOLUTIONS
USE VACUUM BLASTERS
I0353 OPERATE AIRCRAFT WASHERS
USE STEAM CLEANING EQUIPMENT
IDENTIFY METALS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
H0326 IDENTIFY TYPES/CHARACTERISTICS OF CORROSION
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF PLASTICS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE
MATERIALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED
STRUCTURES
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS
MATERIALS
SELECT COMMON HANDTOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT GRINDING WHEELS
SELECT WIRE BRUSHES/WHEELS
SELECT ROTARY FILES/FLAP WHEELS

SELECT ABRASIVE PAPER
 RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
 SELECT SOLVENTS
 SELECT PASSIVATION SOLUTIONS
 PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
 INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
 INTERPRET GAGES OR METERS
 SELECT MASKING MATERIALS
 SELECT PROTECTIVE COATINGS
 RECOGNIZE CAPABILITIES/APPLICATIONS OF AIRCRAFT WASHERS
 RECOGNIZE CAPABILITIES/APPLICATIONS OF STEAM CLEANING EQUIPMENT
 RECOGNIZE CAPABILITIES/APPLICATIONS OF ABRASIVE BLASTERS

RELATED TASKS

G0239 APPLY MASKING MATERIALS TO SURFACES
 G0243 ATTACH RESTRAINT OR SAFETY HARNESES
 G0244 ATTACH STATIC GROUNDS
 G0246 CLEAN CABLES OF LOOSE RUST OR CORROSION USING SOLVENTS
 G0287 PREPARE SURFACES BY HAND SANDING
 G0288 PREPARE SURFACES USING ELECTRIC BUFFERS
 G0289 PREPARE SURFACES USING ELECTRIC GRINDERS
 G0290 PREPARE SURFACES USING ELECTRIC SANDERS
 G0291 PREPARE SURFACES USING PNEUMATIC BUFFERS
 G0292 PREPARE SURFACES USING PNEUMATIC GRINDERS
 G0293 PREPARE SURFACES USING PNEUMATIC ROTARY FLAP WHEEL
 G0294 PREPARE SURFACES USING PNEUMATIC SANDERS
 G0297 REMOVE MASKING MATERIALS FROM SURFACES
 G0301 REMOVE RESTRAINT OR SAFETY HARNESES
 K0301 CLEAN CABLES OF LOOSE RUST AND CORROSION USING SOLVENTS
 G0302 REMOVE STATIC GROUNDS
 I0343 CLEAN AIRCRAFT PARTS USING BRUSHES
 I0344 CLEAN AIRCRAFT PARTS USING DIP METHODS
 I0345 CLEAN AIRCRAFT PARTS USING ULTRASONIC CLEANERS
 I0346 CLEAN AIRCRAFT PARTS USING VAPOR DEGREASERS
 I0359 SPRAY CLEAN AIRCRAFT PARTS
 I0360 SPRAY CLEAN SUPPORT EQUIPMENT PARTS
 I0361 STEAM CLEAN AIRCRAFT PARTS
 I0362 STEAM CLEAN SUPPORT EQUIPMENT PARTS
 I0363 VISUALLY INSPECT AIRCRAFT PARTS TO SELECT TYPE OF CLEANING
 SOLUTION NEEDED
 I0367 WASH SUPPORT EQUIPMENT
 I0368 WIPE CLEAN AIRCRAFT PARTS
 I0369 WIPE CLEAN SUPPORT EQUIPMENT PARTS
 J0446 REMOVE PROTECTIVE COATINGS USING PLASTIC MEDIA BLASTING
 J0459 REMOVE REFLECTIVE TAPE FROM EQUIPMENT
 K0496 SCUFF UP METAL SURFACES
 K0497 SCUFF UP PAINTED SURFACES
 K0500 WIPE DOWN METAL SURFACES WITH ALCOHOL PRIOR TO PAINTING
 K0501 WIPE DOWN METAL SURFACES WITH DRY RAGS
 K0502 WIPE DOWN METAL SURFACES WITH SOLVENTS PRIOR TO PAINTING
 K0503 WIPE DOWN METAL SURFACES WITH THINNERS PRIOR TO PAINTING
 L0533 APPLY FILLER PRIMER TO RADOMES USING BRUSHES
 L0534 APPLY FILLER PRIMER TO RADOMES USING SPRAY GUNS
 L0576 HAND SAND CURED FILLER PRIMER

L0597 SAND DRY ELASTOMERIC PRIMED SURFACES
L0606 WIPE DOWN ADVANCED COMPOSITE SURFACES PRIOR TO PAINTING
L0607 WIPE DOWN FIBERGLASS SURFACES WITH THINNERS PRIOR TO PAINTING
L0608 WIPE DOWN PAINTED SURFACES
M0647 LAY DOWN AIRCRAFT BARRIER PAPER
M0662 PICK UP AIRCRAFT BARRIER PAPER
S0843 PREPARE COMPOSITE SURFACES BEFORE APPLYING PROTECTIVE COATINGS

TASK #: 00830
IDENTIFY METALS

NOTES:

THIS SKILL, WHICH IS COMMON TO OTHER TASKS ANALYZED, IS ANALYZED SEPARATELY DUE TO IT'S COMPLEXITY

EQUIPMENT:

MASKING MATERIALS
MAGNET
METAL IDENTIFICATION KIT
COMMON HANDTOOLS
FACE SHIELD
RUBBER GLOVES
APRON
RESPIRATOR
EMERGENCY EYE WASH/SHOWER STATION
COVERALLS
SOLVENT
NEUTRALIZING AGENT
GRINDER
PIECE OF GLASS OR GRINDING WHEEL (FOR TITANIUM)

REFERENCES:

T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
T.O. 1-1-2 (CORROSION PREVENTION AND CONTROL FOR AEROSPACE EQUIPMENT)
T.O. 1-1A-9 (ENGINEERING SERIES FOR AIRCRAFT REPAIR)
APPLICABLE AIRCRAFT -3 AND -23 T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

PROPERLY IDENTIFY THE METAL

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	K0474	3.45	18	22	22	25	6.15	7
427X1	K0475	4.53	22	25	29	41	5.55	11
427X1	K0476	2.86	6	5	6	5	6.46	7
427X1	K0477	2.20	3	2	2	2	6.24	7
427X1	K0478	1.43	3	2	2	1	6.36	2
427X1	K0479	1.43	3	2	2	1	6.48	2
427X1	K0480	1.41	3	1	1	1	6.77	2
427X1	K0481	2.47	13	13	12	18	4.71	7
427X1	K0482	2.43	5	3	5	6	5.06	7
427X1	K0483	3.25	6	6	8	19	5.55	7
427X1	K0484	3.20	36	33	34	32	5.39	15
427X1	K0485	2.39	5	6	7	10	6.26	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

IDENTIFY METALS USING VISUAL METHOD

K0483 - IDENTIFY METALS USING STANDARD CODES

- CLASSIFY METAL BY PHYSICAL CHARACTERISTICS

K0484 - IDENTIFY METALS USING VISUAL COMPARISON TECHNIQUES

IDENTIFY METALS USING MECHANICAL METHOD

- DON PROTECTIVE EQUIPMENT

K0481 - IDENTIFY METALS USING MAGNETIC TESTS

- CLASSIFY SAMPLE AS FERROUS OR NON FERROUS

K0482 - IDENTIFY METALS USING SPARK TEST^c (IF NON FERROUS)

K0478 - IDENTIFY METALS USING FRACTURE TESTS

K0479 - IDENTIFY METALS USING HARDNESS TESTS

K0480 - IDENTIFY METALS USING HEAT TESTS

IDENTIFY METALS USING CHEMICAL METHOD

- DON SAFETY EQUIPMENT

- IDENTIFY METAL CATEGORY VISUALLY OR MECHANICALLY TO SELECT WHICH CHEMICAL TO USE

- SELECT PROPER CHEMICAL TEST PROCEDURE OUT OF T.O.

K0476 - IDENTIFY METALS USING ACID TESTS

K0477 - IDENTIFY METALS USING ALKALINE TESTS

K0475 - IDENTIFY METALS BY RESEARCHING TECHNICAL DATA

- NEUTRALIZE CHEMICALS ON MATERIALS TESTED

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT

USE COMMON HANDTOOLS

OPERATE HAND-HELD GRINDERS

APPLY MASKING MATERIALS

APPLY SOLVENTS

APPLY NEUTRALIZING AGENTS

USE EMERGENCY EYE WASH/SHOWERS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
K0474 IDENTIFY CHARACTERISTICS OF SPECIFIC METALS
K0485 IDENTIFY PROPERTIES OF SPECIFIC METALS
SELECT COMMON HANDTOOLS
SELECT GRINDING WHEELS
RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
SELECT SOLVENTS
SELECT NEUTRALIZING AGENTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT MASKING MATERIALS

TASK #: 00840
REMOVE DECALS

EQUIPMENT:

HAND SCRAPERS
SOLVENTS/THINNERS
RAGS
MASKING MATERIALS
STEAM DECAL REMOVER
RESPIRATOR
EYE PROTECTION
GLOVES
ABRASIVE PAPER

REFERENCES:

T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
T.O. 1-1-8 (APPLICATION OF ORGANIC COATINGS)
APPLICABLE AIRCRAFT -3 AND -23 T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE, HANGER, OR IN SHOP
CUE: PERFORMED WHEN DECALS ARE DELETED OR REQUIRE REPLACEMENT

STANDARDS:

REMOVE DECAL WITHOUT DAMAGE TO APPLIED SURFACE

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	L0596	3.94	62	64	61	43	4.50	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

GROUND AIRCRAFT OR EQUIPMENT
ATTACH RESTRAINTS
ENSURE BASE MATERIAL AND REMOVAL METHOD ARE COMPATABLE
DON SAFETY EQUIPMENT
MASK AREA
L0596 REMOVE DECALS FROM AIRCRAFT (OR EQUIPMENT)
CLEAN RESIDUE FROM BASE SURFACE
REMOVE MASKING AND CLEAN SURROUNDING AREA

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE ABRASIVE PAPER
APPLY MASKING MATERIALS
APPLY SOLVENTS
USE STEAM DECAL REMOVER

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF PLASTICS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE
MATERIALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS
MATERIALS
SELECT COMMON HANDTOOLS
SELECT ABRASIVE PAPER
SELECT SOLVENTS
SELECT MASKING MATERIALS

TASK #: 00850
APPLY DECALS

EQUIPMENT:

EDGE SEALANT
SPRAY PAINTING EQUIPMENT
ABRASIVE PAPER/MAT
COMMON HANDTOOLS
SOLVENTS
MASKING MATERIALS
PRIMER
SQUEEGEE
SPONGE
RESPIRATOR
GLOVES (LEATHER AND RUBBER)
EYE PROTECTION

REFERENCES:

T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
T.O. 1-1-8 (APPLICATION OF ORGANIC COATINGS)
APPLICABLE AIRCRAFT -3 AND -23 T.O.
APPLICABLE COMMAND REGULATIONS

CONDITIONS CUES:

CONDITION: FLIGHTLINE, HANGER, OR IN SHOP

STANDARDS:

ALLIED TO CORRECT LOCATIONS WITHOUT DAMAGE TO THE DECAL

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	L0509	2.31	10	9	8	5	4.44	7
427X1	L0513	4.65	70	70	65	49	5.16	18
427X1	L0559	2.29	33	36	34	23	3.74	15
427X1	L0579	1.35	5	4	4	3	4.30	2
427X1	L0602	1.39	6	5	5	3	4.27	2
427X1	L0605	2.92	51	56	52	40	3.80	17

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

LOCATE POSITION OF DECAL THROUGH T.O. OR REGULATIONS
CLEAN AND PREPARE SURFACE PRIOR TO DECAL APPLICATION
L0509 APPLY ACTIVATORS TO ADHESIVE DECALS
L0513 APPLY DECALS TO AIRCRAFT
L0559 APPLY REFLECTIVE TAPE TO EQUIPMENT
L0579 MARK EMERGENCY EQUIPMENT, SUCH AS CANOPY KNIVES OR AXES USING
REFLECTIVE TAPES
L0602 SPRAY ON EDGE SEALER (OR USE BRUSH)
L0605 TRIM DECALS WITH EDGE SEALER

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE ABRASIVE PAPER
USE STANDARD MEASURING INSTRUMENTS
APPLY MASKING MATERIALS
APPLY SOLVENTS
APPLY SEALANTS
APPLY PROTECTIVE COATINGS
USE AEROSOL POWER PACKS
USE SUCTION FEED SPRAY GUNS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
SELECT COMMON HANDTOOLS
SELECT ABRASIVE PAPER
SELECT SOLVENTS
SELECT SEALANTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT MASKING MATERIALS
SELECT PROTECTIVE COATINGS
RECOGNIZE CAPABILITIES/APPLICATIONS OF AEROSOL POWER PACKS
RECOGNIZE CAPABILITIES/APPLICATIONS OF SUCTION FEED SPRAY GUNS

TASK #: 00860

APPLY PROTECTIVE COATINGS USING AEROSOL POWER PACKS

NOTES:

USED TO COVER SMALL AREAS, APPLY STENCILS, AND SMALL AMOUNTS OF PROTECTIVE COATINGS

EQUIPMENT:

EMERGENCY EYE WASH/SHOWERS
GOGGLES
COVERALLS
GLOVES
RESPIRATOR
POWER PACK KIT
MASKING MATERIALS
RAGS
THINNERS

REFERENCES:

T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
T.O. 1-1-8 (APPLICATION OF ORGANIC COATINGS)
APPLICABLE AIRCRAFT -3 AND -23 T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE, HANGER, OR IN SHOP
CONSTRAINT: SURFACE MUST BE PREPARED FIRST

STANDARDS:

APPLY COATINGS WITHOUT RUNS OR SAGS

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	G0243	4.06	36	39	37	25	3.88	12
427X1	G0244	4.12	73	71	65	48	2.95	13
427X1	G0301	2.14	23	24	22	15	3.57	7
427X1	G0302	2.16	45	44	39	27	2.65	5
427X1	J0372	4.20	54	57	56	59	5.64	18
427X1	J0460	3.75	26	32	36	40	5.01	12
427X1	K0471	2.16	6	6	6	3	5.45	7
427X1	L0504	2.24	11	12	11	9	4.59	7
427X1	L0511	5.51	69	68	67	46	5.52	18
427X1	L0512	4.78	49	47	48	31	5.23	12
427X1	L0518	2.55	29	34	34	22	4.76	15
427X1	L0526	2.45	37	40	38	24	4.81	15
427X1	L0535	1.45	6	5	5	3	4.59	2
427X1	L0537	2.43	32	37	37	26	4.33	15
427X1	L0545	2.92	49	54	50	34	5.02	17
427X1	L0552	2.73	37	40	39	29	4.71	15
427X1	L0570	3.71	52	49	51	45	3.98	12
427X1	L0585	5.33	90	91	88	63	4.52	18
427X1	L0586	1.57	13	14	16	11	4.69	2
427X1	L0588	3.84	65	65	67	46	4.42	18
427X1	L0589	4.86	76	79	77	54	5.00	18
427X1	L0590	4.55	75	74	74	53	4.54	18
427X1	L0591	6.04	89	90	85	64	5.15	18
427X1	L0592	5.41	81	83	80	59	4.86	18
427X1	L0603	3.49	77	81	78	57	3.45	17
427X1	L0604	1.76	10	12	12	12	5.75	2
427X1	M0647	2.82	74	75	69	48	3.06	17
427X1	M0662	1.61	74	74	69	46	2.52	6
427X1	O0697	1.04	3	2	1	0	5.18	2
427X1	R0816	2.27	22	24	24	18	4.65	7
427X1	S0828	2.98	26	23	20	19	5.18	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT SURFACE FOR CLEANLINESS
 OBTAIN COATING NEEDED
 ASSEMBLE SPRAY EQUIPMENT
 DON SAFETY EQUIPMENT
 MIX COATINGS AS DIRECTED
 MASK AREAS
 APPLY COATINGS (PRIMER, TOP COATING)
 REMOVE MASKING MATERIALS
 CLEAN EQUIPMENT AND DISPOSE OF WASTE

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE STANDARD MEASURING INSTRUMENTS
APPLY MASKING MATERIALS
APPLY SOLVENTS
APPLY PROTECTIVE COATINGS
USE AEROSOL POWER PACKS
USE EMERGENCY EYE WASH/SHOWERS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
SELECT SOLVENTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT MASKING MATERIALS
SELECT PROTECTIVE COATINGS
RECOGNIZE CAPABILITIES/APPLICATIONS OF AEROSOL POWER PACKS

RELATED TASKS

G0243 ATTACH RESTRAINT OR SAFETY HARNESES
G0244 ATTACH STATIC GROUNDS
G0301 REMOVE RESTRAINT OR SAFETY HARNESES
G0302 REMOVE STATIC GROUNDS
J0372 IDENTIFY PROTECTIVE COATINGS BY VISUAL INSPECTIONS
J0460 RESEARCH TECHNICAL DATA TO IDENTIFY PROTECTIVE COATINGS
K0471 APPLY PROTECTIVE COATING TO COPPER
L0504 APPLY ACID RESISTANT COATINGS TO SURFACES USING AEROSOL POWER PACKS
L0511 APPLY CAMOUFLAGE COATINGS TO AIRCRAFT
L0512 APPLY CAMOUFLAGE COATINGS TO SUPPORT EQUIPMENT
L0518 APPLY ENAMELS TO SURFACES USING AEROSOL POWER PACKS
L0526 APPLY EPOXY COATINGS TO SURFACES USING AEROSOL POWER PACKS
L0535 APPLY FLUORESCENT COATINGS TO SIGNAL EQUIPMENT
L0537 APPLY LACQUERS TO SURFACES USING AEROSOL POWER PACKS
L0545 APPLY POLYURETHANE COATINGS TO SURFACES USING AEROSOL POWER PACKS
L0552 APPLY PRIMERS TO SURFACES USING AEROSOL POWER PACKS
L0570 CLEAN AREAS AFTER APPLYING PROTECTIVE COATINGS
L0585 MIX PAINTS
L0586 PAINT EMERGENCY EQUIPMENT
L0588 PREPARE ENAMELS FOR APPLICATION
L0589 PREPARE EPOXY COATINGS FOR APPLICATION
L0590 PREPARE LACQUERS FOR APPLICATION
L0591 PREPARE POLYURETHANE COATINGS FOR APPLICATION
L0592 PREPARE PRIMERS FOR APPLICATION
L0603 STRAIN PAINTS
L0604 TINT PAINT COLORS
M0647 LAY DOWN AIRCRAFT BARRIER PAPER

M0662 PICK UP AIRCRAFT BARRIER PAPER
O0697 APPLY PREVENTIVE COATINGS TO MISSILES
R0816 APPLY PROTECTIVE COATING TO SEALED AREAS
S0828 APPLY PROTECTIVE COATINGS TO COMPOSITE SURFACES

TASK #: 00870

APPLY PROTECTIVE COATINGS USING AIRLESS SPRAY GUNS

NOTES:

COMMONLY USED FOR LARGE COATING JOBS

EQUIPMENT:

RESPIRATOR
EYE PROTECTION
GLOVES
COVERALLS
EMERGENCY EYE WASH/SHOWER
MASKING MATERIALS
COMMON HANDTOOLS
ABRASIVE PAPER
THINNERS
RAGS

REFERENCES:

T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
T.O. 1-1-8 (APPLICATION OF ORGANIC COATINGS)
APPLICABLE AIRCRAFT -3 AND -23 T.O.
MANUFACTURE INSTRUCTIONS

CONDITIONS CUES:

CONDITION: FLIGHTLINE, HANGER, OR IN SHOP
CONSTRAINT: SURFACE MUST BE PREPARED FIRST

STANDARDS:

COATINGS APPLIED WITH NO RUNS OR SAGS

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	G0243	4.06	36	39	37	25	3.88	12
427X1	G0244	4.12	73	71	65	48	2.95	13
427X1	G0301	2.14	23	24	22	15	3.57	7
427X1	G0302	2.16	45	44	39	27	2.65	5
427X1	J0372	4.20	54	57	56	59	5.64	18
427X1	J0460	3.75	26	32	36	40	5.01	12
427X1	K0471	2.16	6	6	6	3	5.45	7
427X1	L0505	2.69	6	6	4	4	6.01	7
427X1	L0511	5.51	69	68	67	46	5.52	18
427X1	L0512	4.78	49	47	48	31	5.23	12
427X1	L0514	2.31	4	4	5	4	6.47	7
427X1	L0520	2.63	12	12	11	9	5.95	7
427X1	L0528	3.06	14	13	15	11	6.07	7
427X1	L0535	1.45	6	5	5	3	4.59	2
427X1	L0539	2.63	7	9	10	5	5.61	7
427X1	L0547	3.86	17	19	20	15	6.32	11
427X1	L0554	3.22	12	13	13	10	5.97	7
427X1	L0562	2.06	18	19	19	12	5.05	7
427X1	L0565	2.04	3	4	3	2	6.18	2
427X1	L0570	3.71	52	49	51	45	3.98	12
427X1	L0585	5.33	90	91	88	63	4.52	18
427X1	L0586	1.57	13	14	16	11	4.69	2
427X1	L0587	4.04	23	25	28	20	5.71	11
427X1	L0588	3.84	65	65	67	46	4.42	18
427X1	L0589	4.86	76	79	77	54	5.00	18
427X1	L0590	4.55	75	74	74	53	4.54	18
427X1	L0591	6.04	89	90	85	64	5.15	18
427X1	L0592	5.41	81	83	80	59	4.86	18
427X1	L0593	2.57	25	24	23	13	4.85	7
427X1	L0594	3.55	29	26	23	15	5.26	11
427X1	L0598	3.69	16	18	20	17	5.62	11
427X1	L0603	3.49	77	81	78	57	3.45	17
427X1	L0604	1.76	10	12	12	12	5.75	2
427X1	M0647	2.82	74	75	69	48	3.06	17
427X1	M0662	1.61	74	74	69	46	2.52	6
427X1	O0697	1.04	3	2	1	0	5.18	2
427X1	R0816	2.27	22	24	24	18	4.65	7
427X1	S0828	2.98	26	23	20	19	5.18	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT SURFACE FOR CLEANLINESS
OBTAIN COATING NEEDED
L0598 SET UP AIRLESS SPRAY EQUIPMENT FOR USE
GROUND AIRLESS EQUIPMENT AND SURFACE TO BE COATED
DON SAFETY EQUIPMENT
MIX COATINGS AS DIRECTED
MASK AREAS
APPLY COATINGS (PRIMER, TOP COATING)
REMOVE MASKING MATERIALS
CLEAN EQUIPMENT AND DISPOSE OF WASTE

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE ABRASIVE PAPER
USE STANDARD MEASURING INSTRUMENTS
APPLY MASKING MATERIALS
APPLY SOLVENTS
APPLY PROTECTIVE COATINGS
USE AIRLESS SPRAY GUNS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
SELECT COMMON HANDTOOLS
SELECT ABRASIVE PAPER
SELECT WEIGHT MEASURING SCALES
RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
SELECT SOLVENTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
INTERPRET GAGES OR METERS
SELECT MASKING MATERIALS
SELECT PROTECTIVE COATINGS
RECOGNIZE CAPABILITIES/APPLICATIONS OF AIRLESS SPRAY GUNS

RELATED TASKS

G0243 ATTACH RESTRAINT OR SAFETY HARNESES
G0244 ATTACH STATIC GROUNDS
G0301 REMOVE RESTRAINT OR SAFETY HARNESES
G0302 REMOVE STATIC GROUNDS
J0372 IDENTIFY PROTECTIVE COATINGS BY VISUAL INSPECTIONS
J0460 RESEARCH TECHNICAL DATA TO IDENTIFY PROTECTIVE COATINGS
K0471 APPLY PROTECTIVE COATING TO COPPER

L0505 APPLY ACID RESISTANT COATINGS TO SURFACES USING AIRLESS SPRAY GUNS
 L0511 APPLY CAMOUFLAGE COATINGS TO AIRCRAFT
 L0512 APPLY CAMOUFLAGE COATINGS TO SUPPORT EQUIPMENT
 L0514 APPLY ELASTOMERIC COATINGS USING AIRLESS SPRAY GUNS
 L0520 APPLY ENAMELS TO SURFACES USING AIRLESS SPRAY GUNS
 L0528 APPLY EPOXY COATINGS TO SURFACES USING AIRLESS SPRAY GUNS
 L0535 APPLY FLUORESCENT COATINGS TO SIGNAL EQUIPMENT
 L0539 APPLY LACQUERS TO SURFACES USING AIRLESS SPRAY GUNS
 L0547 APPLY POLYURETHANE COATINGS TO SURFACES USING AIRLESS SPRAY GUNS
 L0554 APPLY PRIMERS TO SURFACES USING AIRLESS SPRAY GUNS
 L0562 APPLY STRIPPABLE COATING COMPOUNDS TO SURFACES
 L0565 APPLY WASH PRIMERS TO SURFACES USING AIRLESS SPRAY GUNS
 L0570 CLEAN AREAS AFTER APPLYING PROTECTIVE COATINGS
 L0585 MIX PAINTS
 L0586 PAINT EMERGENCY EQUIPMENT
 L0587 PREPARE ELASTOMERIC COATINGS FOR APPLICATION
 L0588 PREPARE ENAMELS FOR APPLICATION
 L0589 PREPARE EPOXY COATINGS FOR APPLICATION
 L0590 PREPARE LACQUERS FOR APPLICATION
 L0591 PREPARE POLYURETHANE COATINGS FOR APPLICATION
 L0592 PREPARE PRIMERS FOR APPLICATION
 L0593 PREPARE STRIPPABLE COATING COMPOUNDS FOR APPLICATION
 L0594 PREPARE WASH PRIMERS FOR APPLICATION
 L0603 STRAIN PAINTS
 L0604 TINT PAINT COLORS
 M0647 LAY DOWN AIRCRAFT BARRIER PAPER
 M0662 PICK UP AIRCRAFT BARRIER PAPER
 O0697 APPLY PREVENTIVE COATINGS TO MISSILES
 R0816 APPLY PROTECTIVE COATING TO SEALED AREAS
 S0828 APPLY PROTECTIVE COATINGS TO COMPOSITE SURFACES

TASK #: 00880

APPLY PROTECTIVE COATINGS USING BRUSHES

NOTES:

NORMALLY PERFORMED ON SMALLER JOBS (FOR TOUCH UP) OR WHEN SURFACE IS POROUS AND NEEDS BRUSHING FOR PENETRATION.

EQUIPMENT:

THINNER
SOLVENTS
CONTAINER/CUP
MASKING MATERIALS
EMERGENCY EYE WASH/SHOWER
COVERALLS
RESPIRATOR
GLOVES
EYE PROTECTION

REFERENCES:

T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
T.O. 1-1-8 (APPLICATION OF ORGANIC COATINGS)
APPLICABLE AIRCRAFT -3 AND -23 T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE, HANGER, OR IN SHOP
CONSTRAINT: SURFACE MUST BE PREPARED FIRST

STANDARDS:

COATING APPLIED EVENLY WITHOUT RUNS OR SAGS

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	J0372	4.20	54	57	56	59	5.64	18
427X1	J0460	3.75	26	32	36	40	5.01	12
427X1	L0506	2.49	12	16	16	11	4.09	7
427X1	L0511	5.51	69	68	67	46	5.52	18
427X1	L0512	4.78	49	47	48	31	5.23	12
427X1	L0515	2.24	10	10	11	9	5.12	7
427X1	L0521	2.27	44	49	47	38	3.96	15
427X1	L0529	1.73	24	25	26	16	4.18	2
427X1	L0535	1.45	6	5	5	3	4.59	2
427X1	L0540	1.25	28	33	32	18	4.20	14
427X1	L0548	1.80	35	37	34	20	4.52	14
427X1	L0555	1.94	24	27	26	19	4.22	2
427X1	L0562	2.06	18	19	19	12	5.05	7
427X1	L0563	1.06	10	12	13	9	3.12	2
427X1	L0566	.98	4	5	5	2	4.47	2

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	L0585	5.33	90	91	88	63	4.52	18
427X1	L0586	1.57	13	14	16	11	4.69	2
427X1	L0587	4.04	23	25	28	20	5.71	11
427X1	L0588	3.84	65	65	67	46	4.42	18
427X1	L0589	4.86	76	79	77	54	5.00	18
427X1	L0590	4.55	75	74	74	53	4.54	18
427X1	L0591	6.04	89	90	85	64	5.15	18
427X1	L0592	5.41	81	83	80	59	4.86	18
427X1	L0593	2.57	25	24	23	13	4.85	7
427X1	L0594	3.55	29	26	23	15	5.26	11
427X1	L0603	3.49	77	81	78	57	3.45	17
427X1	L0604	1.76	10	12	12	12	5.75	2
427X1	M0621	2.63	65	67	60	36	3.51	17
427X1	M0647	2.82	74	75	69	48	3.06	17
427X1	M0662	1.61	74	74	69	46	2.52	6
427X1	00696	1.14	7	7	5	1	4.04	2
427X1	R0816	2.27	22	24	24	18	4.65	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT SURFACE FOR CLEANLINESS AND READINESS FOR COATINGS
(WATER BREAK TEST)
OBTAIN COATING NEEDED
MASK AREA
M0647 LAY DOWN AIRCRAFT BARRIER PAPER (IF REQUIRED)
DON SAFETY EQUIPMENT
APPLY COATING TO REQUIRED THICKNESS AND NUMBER OF COATS
M0621 CLEAN PAINTING EQUIPMENT, SUCH AS BRUSHES OR ROLLERS
M0662 PICK UP AIRCRAFT BARRIER PAPER

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE STANDARD MEASURING INSTRUMENTS
APPLY MASKING MATERIALS
APPLY SOLVENTS
APPLY PROTECTIVE COATINGS
USE PAINT BRUSHES
USE EMERGENCY EYE WASH/SHOWERS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
SELECT SOLVENTS

PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
SELECT MASKING MATERIALS
SELECT PROTECTIVE COATINGS
SELECT PAINT BRUSHES

RELATED TASKS

J0372 IDENTIFY PROTECTIVE COATINGS BY VISUAL INSPECTIONS
J0460 RESEARCH TECHNICAL DATA TO IDENTIFY PROTECTIVE COATINGS
L0506 APPLY ACID RESISTANT COATINGS TO SURFACES USING BRUSHES
L0511 APPLY CAMOUFLAGE COATINGS TO AIRCRAFT
L0512 APPLY CAMOUFLAGE COATINGS TO SUPPORT EQUIPMENT
L0515 APPLY ELASTOMERIC COATINGS USING BRUSHES
L0521 APPLY ENAMELS TO SURFACES USING BRUSHES
L0529 APPLY EPOXY COATINGS TO SURFACES USING BRUSHES
L0535 APPLY FLUORESCENT COATINGS TO SIGNAL EQUIPMENT
L0540 APPLY LACQUERS TO SURFACES USING BRUSHES
L0548 APPLY POLYURETHANE COATINGS TO SURFACES USING BRUSHES
L0555 APPLY PRIMERS TO SURFACES USING BRUSHES
L0562 APPLY STRIPPABLE COATING COMPOUNDS TO SURFACES
L0563 APPLY TRAFFIC PAINT TO CHOCKS USING BRUSHES
L0566 APPLY WASH PRIMERS TO SURFACES USING BRUSHES
L0585 MIX PAINTS
L0586 PAINT EMERGENCY EQUIPMENT
L0587 PREPARE ELASTOMERIC COATINGS FOR APPLICATION
L0588 PREPARE ENAMELS FOR APPLICATION
L0589 PREPARE EPOXY COATINGS FOR APPLICATION
L0590 PREPARE LACQUERS FOR APPLICATION
L0591 PREPARE POLYURETHANE COATINGS FOR APPLICATION
L0592 PREPARE PRIMERS FOR APPLICATION
L0593 PREPARE STRIPPABLE COATING COMPOUNDS FOR APPLICATION
L0594 PREPARE WASH PRIMERS FOR APPLICATION
L0603 STRAIN PAINTS
L0604 TINT PAINT COLORS
O0696 APPLY CORROSION PREVENTIVE COMPOUND (CPC) TO PYLONS
R0816 APPLY PROTECTIVE COATING TO SEALED AREAS

TASK #: 00890

APPLY PROTECTIVE COATINGS USING PRESSURE FEED SPRAY GUNS

NOTES:

TASK USUALLY PERFORMED FOR LARGE SURFACE, VOLUME APPLICATIONS

EQUIPMENT:

RESPIRATORY DEVICE
GLOVES
APRON/COVERALLS
FACE SHIELD/GOGGLES
EMERGENCY EYE WASH/SHOWER
MASKING MATERIALS
MIXING EQUIPMENT
AIR SOURCE/HOSES
COMMON HANDTOOLS
TACK RAGS
STOP WATCH
VISCOMETER
THINNERS

REFERENCES:

T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
T.O. 1-1-8 (APPLICATION OF ORGANIC COATINGS)
APPLICABLE AIRCRAFT -3 AND -23 T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE (OCCASIONALLY), HANGER, OR IN SHOP (SPRAY BOOTH)
CONSTRAINT: AREA MUST BE WELL VENTILATED
SURFACE MUST BE PREPARED FIRST

STANDARDS:

COATING APPLIED EVENLY WITHOUT RUNS OR SAGS

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	G0243	4.06	36	39	37	25	3.88	12
427X1	G0244	4.12	73	71	65	48	2.95	13
427X1	G0301	2.14	23	24	22	15	3.57	7
427X1	G0302	2.16	45	44	39	27	2.65	5
427X1	J0372	4.20	54	57	56	59	5.64	18
427X1	J0460	3.75	26	32	36	40	5.01	12
427X1	K0471	2.16	6	6	6	3	5.45	7
427X1	L0507	3.12	6	9	9	8	5.29	7
427X1	L0511	5.51	69	68	67	46	5.52	18
427X1	L0512	4.78	49	47	48	31	5.23	12
427X1	L0516	3.04	10	11	13	7	6.12	7

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	L0523	3.04	18	25	26	18	5.26	7
427X1	L0530	3.45	30	35	34	21	5.44	15
427X1	L0535	1.45	6	5	5	3	4.59	2
427X1	L0541	3.20	19	27	27	18	5.19	7
427X1	L0549	4.61	40	47	43	26	5.66	12
427X1	L0556	3.69	35	37	35	22	5.37	12
427X1	L0562	2.06	18	19	19	12	5.05	7
427X1	L0564	1.20	9	12	13	6	4.38	2
427X1	L0567	2.84	9	8	6	3	5.29	7
427X1	L0570	3.71	52	49	51	45	3.98	12
427X1	L0584	3.00	17	16	15	11	4.78	7
427X1	L0585	5.33	90	91	88	63	4.52	18
427X1	L0586	1.57	13	14	16	11	4.69	2
427X1	L0587	4.04	23	25	28	20	5.71	11
427X1	L0588	3.8	65	65	67	46	4.42	18
427X1	L0589	4.8	76	79	77	54	5.00	18
427X1	L0590	4.51		74	74	53	4.54	18
427X1	L0591	6.04	9	90	85	64	5.15	18
427X1	L0592	5.41	81	83	80	59	4.86	18
427X1	L0593	2.57	25	24	23	13	4.85	7
427X1	L0594	3.55	29	26	23	15	5.26	11
427X1	L0600	4.16	40	46	45	27	5.16	12
427X1	L0603	3.49	77	81	78	57	3.45	17
427X1	L0604	1.76	10	12	12	12	5.75	2
427X1	M0647	2.82	74	75	69	48	3.06	17
427X1	M0662	1.61	74	74	69	46	2.52	6
427X1	O0697	1.04	3	2	1	0	5.18	2
427X1	R0816	2.27	22	24	24	18	4.65	7
427X1	S0828	2.98	26	23	20	19	5.18	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT SURFACE FOR CLEANLINESS AND READINESS FOR COATINGS
(WATER BREAK TEST)
OBTAIN COATING NEEDED

L0600 SET UP PRESSURE FEED SPRAY EQUIPMENT FOR USE
DON SAFETY EQUIPMENT
PREPARE SPECIAL COATINGS
MIX BOTH COMPONENTS (CATALYST AND RESIN)
ALLOW MIXTURE TO SET 30 MINUTES (FOR MAJORITY)

M0647 LAY DOWN AIRCRAFT BARRIER PAPER
ADJUST VISCOSITY (ACITATE)
STRAIN (FILTER) MIXTURE INTO GUN
APPLY COATING TO REQUIRED THICKNESS AND NUMBER OF COATS
CLEAN EQUIPMENT

M0662 PICK UP AIRCRAFT BARRIER PAPER

L0570 CLEAN AREAS AFTER APPLYING PROTECTIVE COATINGS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE STANDARD MEASURING INSTRUMENTS
USE VISCOMETER
APPLY MASKING MATERIALS
APPLY SOLVENTS
APPLY PROTECTIVE COATINGS
USE PRESSURE FEED SPRAY GUNS
USE EMERGENCY EYE WASH/SHOWERS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
SELECT COMMON HANDTOOLS
SELECT PRECISION MEASURING INSTRUMENTS
RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
SELECT SOLVENTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET GAGES OR METERS
SELECT MASKING MATERIALS
SELECT PROTECTIVE COATINGS
RECOGNIZE CAPABILITIES/APPLICATIONS OF PRESSURE FEED SPRAY GUNS

RELATED TASKS

G0243 ATTACH RESTRAINT OR SAFETY HARNESES
G0244 ATTACH STATIC GROUNDS
G0301 REMOVE RESTRAINT OR SAFETY HARNESES
G0302 REMOVE STATIC GROUNDS
J0372 IDENTIFY PROTECTIVE COATINGS BY VISUAL INSPECTIONS
J0460 RESEARCH TECHNICAL DATA TO IDENTIFY PROTECTIVE COATINGS
K0471 APPLY PROTECTIVE COATING TO COPPER
L0507 APPLY ACID RESISTANT COATINGS TO SURFACES USING PRESSURE FEED
SPRAY GUNS
L0511 APPLY CAMOUFLAGE COATINGS TO AIRCRAFT
L0512 APPLY CAMOUFLAGE COATINGS TO SUPPORT EQUIPMENT
L0516 APPLY ELASTOMERIC COATINGS USING PRESSURE FEED SPRAY GUNS
L0523 APPLY ENAMELS TO SURFACES USING PRESSURE FEED SPRAY GUNS
L0530 APPLY EPOXY COATINGS TO SURFACES USING PRESSURE FEED SPRAY GUNS
L0535 APPLY FLUORESCENT COATINGS TO SIGNAL EQUIPMENT
L0541 APPLY LACQUERS TO SURFACES USING PRESSURE FEED SPRAY GUNS
L0549 APPLY POLYURETHANE COATINGS TO SURFACES USING PRESSURE FEED SPRAY
GUNS
L0556 APPLY PRIMERS TO SURFACES USING PRESSURE FEED SPRAY GUNS
L0562 APPLY STRIPPABLE COATING COMPOUNDS TO SURFACES
L0564 APPLY TRAFFIC PAINT TO CHOCKS USING SPRAY GUNS
L0567 APPLY WASH PRIMERS TO SURFACES USING PRESSURE FEED SPRAY GUNS
L0584 MEASURE COATING VISCOSITY USING VISCOMETERS

L0585 MIX PAINTS
L0586 PAINT EMERGENCY EQUIPMENT
L0587 PREPARE ELASTOMERIC COATINGS FOR APPLICATION
L0588 PREPARE ENAMELS FOR APPLICATION
L0589 PREPARE EPOXY COATINGS FOR APPLICATION
L0590 PREPARE LACQUERS FOR APPLICATION
L0591 PREPARE POLYURETHANE COATINGS FOR APPLICATION
L0592 PREPARE PRIMERS FOR APPLICATION
L0593 PREPARE STRIPPABLE COATING COMPOUNDS FOR APPLICATION
L0594 PREPARE WASH PRIMERS FOR APPLICATION
L0603 STRAIN PAINTS
L0604 TINT PAINT COLORS
O0697 APPLY PREVENTIVE COATINGS TO MISSILES
R0816 APPLY PROTECTIVE COATING TO SEALED AREAS
S0828 APPLY PROTECTIVE COATINGS TO COMPOSITE SURFACES

TASK #: 00900

APPLY PROTECTIVE COATINGS USING SUCTION FEED SPRAY GUNS

EQUIPMENT:

EMERGENCY EYE WASH/SHOWER
RESPIRATORY DEVICE
EAR PROTECTION
GLOVES
APRON/COVERALLS
FACE SHIELD
MIXING EQUIPMENT
TACK RAGS
STOP WATCH
VISCOMETER
THINNERS
GROUNDING CABLES
MASKING MATERIALS

REFERENCES:

T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
T.O. 1-1-8 (APPLICATION OF ORGANIC COATINGS)
APPLICABLE AIRCRAFT -3 AND -23 T.O.
APPLICABLE AGE T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE, HANGER, OR IN SHOP (SPRAY BOOTH)
CONSTRAINT: AREA MUST BE WELL VENTILATED
SURFACE MUST BE PREPARED FIRST

STANDARDS:

COATING APPLIED EVENLY WITHOUT RUNS OR SAGS

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	G0243	4.06	36	39	37	25	3.88	12
427X1	G0244	4.12	73	71	65	48	2.95	13
427X1	G0301	2.14	23	24	22	15	3.57	7
427X1	G0302	2.16	45	44	39	27	2.65	5
427X1	J0372	4.20	54	57	56	59	5.64	18
427X1	J0460	3.75	26	32	36	40	5.01	12
427X1	K0471	2.16	6	6	6	3	5.45	7
427X1	L0508	3.75	16	19	19	18	5.06	11
427X1	L0511	5.51	69	68	67	46	5.52	18
427X1	L0512	4.78	49	47	48	31	5.23	12
427X1	L0517	3.96	26	26	29	24	5.90	11
427X1	L0525	4.65	53	52	56	43	5.14	18
427X1	L0532	4.65	62	64	65	50	5.32	18
427X1	L0535	1.45	6	5	5	3	4.59	2

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	L0542	4.51	61	60	64	50	5.06	18
427X1	L0551	5.92	76	76	75	59	5.59	18
427X1	L0558	5.06	75	72	74	58	5.24	18
427X1	L0562	2.06	18	19	19	12	5.05	7
427X1	L0564	1.20	9	12	13	6	4.38	2
427X1	L0568	4.16	29	27	24	15	5.12	11
427X1	L0570	3.71	52	49	51	45	3.98	12
427X1	L0584	3.00	17	16	15	11	4.78	7
427X1	L0585	5.33	90	91	88	63	4.52	18
427X1	L0586	1.57	13	14	16	11	4.69	2
427X1	L0587	4.04	23	25	28	20	5.71	11
427X1	L0588	3.84	65	65	67	46	4.42	18
427X1	L0589	4.86	76	79	77	54	5.00	18
427X1	L0590	4.55	75	74	74	53	4.54	18
427X1	L0591	6.04	89	90	85	64	5.15	18
427X1	L0592	5.41	81	83	80	59	4.86	18
427X1	L0593	2.57	25	24	23	13	4.85	7
427X1	L0594	3.55	29	26	23	15	5.26	11
427X1	L0601	5.25	72	73	74	56	4.93	18
427X1	L0603	3.49	77	81	78	57	3.45	17
427X1	L0604	1.76	10	12	12	12	5.75	2
427X1	M0647	2.82	74	75	69	48	3.06	17
427X1	M0662	1.61	74	74	69	46	2.52	6
427X1	O0697	1.04	3	2	1	0	5.18	2
427X1	R0816	2.27	22	24	24	18	4.65	7
427X1	S0828	2.98	26	23	20	19	5.18	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

MASK AREA

INSPECT SURFACE FOR CLEANLINESS AND READINESS FOR COATINGS
(WATER BREAK TEST)

OBTAIN COATING NEEDED

L0601 SET UP SUCTION FEED SPRAY EQUIPMENT FOR USE

DON SAFETY EQUIPMENT

PREPARE SPECIAL COATINGS

MIX BOTH COMPONENTS (CATALYST AND RESIN)

ALLOW MIXTURE TO SET 30 MINUTES (FOR MAJORITY)

M0647 LAY DOWN AIRCRAFT BARRIER PAPER

ADJUST VISCOSITY (AGITATE)

STRAIN (FILTER) MIXTURE INTO GUN

APPLY COATING TO REQUIRED THICKNESS AND NUMBER OF COATS

CLEAN EQUIPMENT

M0662 PICK UP AIRCRAFT BARRIER PAPER

L0570 CLEAN AREAS AFTER APPLYING PROTECTIVE COATINGS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE STANDARD MEASURING INSTRUMENTS
USE VISCOMETER
USE WORKPIECE HOLDING DEVICES
APPLY MASKING MATERIALS
APPLY SOLVENTS
APPLY PROTECTIVE COATINGS
USE SUCTION FEED SPRAY GUNS
USE EMERGENCY EYE WASH/SHOWERS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
SELECT WORKPIECE HOLDING DEVICES
SELECT PRECISION MEASURING INSTRUMENTS
SELECT WEIGHT MEASURING SCALES
RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
SELECT SOLVENTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
SELECT MASKING MATERIALS
SELECT PROTECTIVE COATINGS
RECOGNIZE CAPABILITIES/APPLICATIONS OF SUCTION FEED SPRAY GUNS

RELATED TASKS

G0243 ATTACH RESTRAINT OR SAFETY HARNESES
G0244 ATTACH STATIC GROUNDS
G0301 REMOVE RESTRAINT OR SAFETY HARNESES
G0302 REMOVE STATIC GROUNDS
J0372 IDENTIFY PROTECTIVE COATINGS BY VISUAL INSPECTIONS
J0460 RESEARCH TECHNICAL DATA TO IDENTIFY PROTECTIVE COATINGS
K0471 APPLY PROTECTIVE COATING TO COPPER
L0508 APPLY ACID RESISTANT COATINGS TO SURFACES USING SUCTION FEED SPRAY GUNS
L0511 APPLY CAMOUFLAGE COATINGS TO AIRCRAFT
L0512 APPLY CAMOUFLAGE COATINGS TO SUPPORT EQUIPMENT
L0517 APPLY ELASTOMERIC COATINGS USING SUCTION FEED SPRAY GUNS
L0525 APPLY ENAMELS TO SURFACES USING SUCTION FEED SPRAY GUNS
L0532 APPLY EPOXY COATINGS TO SURFACES USING SUCTION FEED SPRAY GUNS
L0535 APPLY FLUORESCENT COATINGS TO SIGNAL EQUIPMENT
L0542 APPLY LACQUERS TO SURFACES USING SUCTION FEED SPRAY GUNS
L0551 APPLY POLYURETHANE COATINGS TO SURFACES USING SUCTION FEED SPRAY GUNS
L0558 APPLY PRIMERS TO SURFACES USING SUCTION FEED SPRAY GUNS
L0562 APPLY STRIPPABLE COATING COMPOUNDS TO SURFACES
L0564 APPLY TRAFFIC PAINT TO CHOCKS USING SPRAY GUNS
L0568 APPLY WASH PRIMERS TO SURFACES USING SUCTION FEED SPRAY GUNS
L0584 MEASURE COATING VISCOSITY USING VISCOMETERS

L0585 MIX PAINTS
L0586 PAINT EMERGENCY EQUIPMENT
L0587 PREPARE ELASTOMERIC COATINGS FOR APPLICATION
L0588 PREPARE ENAMELS FOR APPLICATION
L0589 PREPARE EPOXY COATINGS FOR APPLICATION
L0590 PREPARE LACQUERS FOR APPLICATION
L0591 PREPARE POLYURETHANE COATINGS FOR APPLICATION
L0592 PREPARE PRIMERS FOR APPLICATION
L0593 PREPARE STRIPPABLE COATING COMPOUNDS FOR APPLICATION
L0594 PREPARE WASH PRIMERS FOR APPLICATION
L0603 STRAIN PAINTS
L0604 TINT PAINT COLORS
00697 APPLY PREVENTIVE COATINGS TO MISSILES
R0816 APPLY PROTECTIVE COATING TO SEALED AREAS
S0828 APPLY PROTECTIVE COATINGS TO COMPOSITE SURFACES

TASK #: 00910

APPLY PROTECTIVE COATINGS USING ELECTROSTATIC SPRAY UNITS

NOTES:

USED TO APPLY POLYURETHANE COATINGS MOSTLY
COATINGS ARE THINNED MORE DURING MIXING WHEN USING THIS EQUIPMENT
CAN ALSO OPERATE THIS EQUIPMENT IN THE NON-ELECTROSTATIC MODE

EQUIPMENT:

RESPIRATORY DEVICE
GLOVES
APRON/COVERALLS
FACE SHIELD
MIXING EQUIPMENT
BODY GROUNDING BELT
TACK RAGS
STOP WATCH
VISCOMETER
THINNERS
MASKING MATERIALS

REFERENCES:

T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
T.O. 1-1-8 (APPLICATION OF ORGANIC COATINGS)
APPLICABLE AIRCRAFT -3 AND -23 T.O.

CONDITIONS CUES:

CONDITION: SPRAY BOOTH OR HANGER
AREA MUST BE WELL VENTILATED IF PAINTING AIRCRAFT, FUEL
TANKS MUST BE PURGED FIRST SURFACE MUST BE PREPARED PRIOR TO
PAINTING

STANDARDS:

COATING APPLIED EVENLY WITHOUT RUNS OR SAGS

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	G0243	4.06	36	39	37	25	3.88	12
427X1	G0244	4.12	73	71	65	48	2.95	13
427X1	G0301	2.14	23	24	22	15	3.57	7
427X1	G0302	2.16	45	44	39	27	2.65	5
427X1	J0372	4.20	54	57	56	59	5.64	18
427X1	J0460	3.75	26	32	36	40	5.01	12
427X1	K0471	2.16	6	6	6	3	5.45	7
427X1	L0511	5.51	69	68	67	46	5.52	18
427X1	L0512	4.78	49	47	48	31	5.23	12
427X1	L0535	1.45	6	5	5	3	4.59	2

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	L0562	2.06	18	19	19	12	5.05	7
427X1	L0570	3.71	52	49	51	45	3.98	12
427X1	L0585	5.33	90	91	88	63	4.52	18
427X1	L0586	1.57	13	14	16	11	4.69	2
427X1	L0588	3.84	65	65	67	46	4.42	18
427X1	L0589	4.86	76	79	77	54	5.00	18
427X1	L0590	4.55	75	74	74	53	4.54	18
427X1	L0591	6.04	89	90	85	64	5.15	18
427X1	L0592	5.41	81	83	80	59	4.86	18
427X1	L0593	2.57	25	24	23	13	4.85	7
427X1	L0594	3.55	29	26	23	15	5.26	11
427X1	L0599	1.78	3	2	2	2	6.41	2
427X1	L0604	1.76	10	12	12	12	5.75	2
427X1	M0647	2.82	74	75	69	48	3.06	17
427X1	M0662	1.61	74	74	69	46	2.52	6
427X1	S0828	2.98	26	23	20	19	5.18	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT SURFACE FOR CLEANLINESS AND READINESS FOR COATINGS
(WATER BREAK TEST)
OBTAIN COATING NEEDED
L0599 SET UP ELECTROSTATIC SPRAY EQUIPMENT FOR USE
DON SAFETY EQUIPMENT
PREPARE SPECIAL COATINGS
MIX BOTH COMPONENTS (CATALYST AND RESIN)
ALLOW MIXTURE TO SET 30 MINUTES (FOR MAJORITY)
M0647 LAY DOWN AIRCRAFT BARRIER PAPER
ADJUST VISCOSITY (AGITATE)
STRAIN (FILTER) MIXTURE INTO GUN
APPLY COATING TO REQUIRED THICKNESS AND NUMBER OF COATS
CLEAN EQUIPMENT
M0662 PICK UP AIRCRAFT BARRIER PAPER
L0570 CLEAN AREAS AFTER APPLYING PROTECTIVE COATINGS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE VISCOMETER
APPLY MASKING MATERIALS
APPLY SOLVENTS
APPLY PROTECTIVE COATINGS
USE ELECTROSTATIC SPRAY EQUIPMENT

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS

RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
SELECT PRECISION MEASURING INSTRUMENTS
RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
SELECT SOLVENTS
SELECT MASKING MATERIALS
SELECT PROTECTIVE COATINGS
RECOGNIZE CAPABILITIES/APPLICATIONS OF ELECTROSTATIC SPRAY
EQUIPMENT

RELATED TASKS

G0243 ATTACH RESTRAINT OR SAFETY HARNESES
G0244 ATTACH STATIC GROUNDS
G0301 REMOVE RESTRAINT OR SAFETY HARNESES
G0302 REMOVE STATIC GROUNDS
J0372 IDENTIFY PROTECTIVE COATINGS BY VISUAL INSPECTIONS
J0460 RESEARCH TECHNICAL DATA TO IDENTIFY PROTECTIVE COATINGS
K0471 APPLY PROTECTIVE COATING TO COPPER
L0511 APPLY CAMOUFLAGE COATINGS TO AIRCRAFT
L0512 APPLY CAMOUFLAGE COATINGS TO SUPPORT EQUIPMENT
L0535 APPLY FLUORESCENT COATINGS TO SIGNAL EQUIPMENT
L0562 APPLY STRIPPABLE COATING COMPOUNDS TO SURFACES
L0585 MIX PAINTS
L0586 PAINT EMERGENCY EQUIPMENT
L0588 PREPARE ENAMELS FOR APPLICATION
L0589 PREPARE EPOXY COATINGS FOR APPLICATION
L0590 PREPARE LACQUERS FOR APPLICATION
L0591 PREPARE POLYURETHANE COATINGS FOR APPLICATION
L0592 PREPARE PRIMERS FOR APPLICATION
L0593 PREPARE STRIPPABLE COATING COMPOUNDS FOR APPLICATION
L0594 PREPARE WASH PRIMERS FOR APPLICATION
L0604 TINT PAINT COLORS
S0828 APPLY PROTECTIVE COATINGS TO COMPOSITE SURFACES

TASK #: 00920

APPLY PROTECTIVE COATINGS USING AEROSOL SPRAYS

NOTES:

USED TO COVER SMALL AREAS AND STENCILING

EQUIPMENT:

RESPIRATORY DEVICE
GLOVES
COVERALLS
FACE SHIELD/GOGGLES
EMERGENCY EYE WASH/SHOWER
MASKING MATERIALS
ABRASIVE PAPER
THINNER
STENCILS
TACK RAGS

REFERENCES:

T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
T.O. 1-1-8 (APPLICATION OF ORGANIC COATINGS)
APPLICABLE AIRCRAFT -3 AND -23 T.O.
APPLICABLE AGE T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE, HANGER, OR IN SHOP

STANDARDS:

COATING APPLIED WITHOUT RUNS OR SAGS

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	G0243	4.06	36	39	37	25	3.88	12
427X1	G0244	4.12	73	71	65	48	2.95	13
427X1	G0301	2.14	23	24	22	15	3.57	7
427X1	G0302	2.16	45	44	39	27	2.65	5
427X1	J0372	4.20	54	57	56	59	5.64	18
427X1	J0460	3.75	26	32	36	40	5.01	12
427X1	L0519	2.67	70	74	70	46	4.42	17
427X1	L0527	2.22	19	23	20	12	4.70	7
427X1	L0535	1.45	6	5	5	3	4.59	2
427X1	L0538	3.10	78	81	80	53	4.11	17
427X1	L0546	1.90	14	16	14	8	4.90	2
427X1	L0553	2.53	68	63	59	44	4.24	17

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	L0570	3.71	52	49	51	45	3.98	12
427X1	L0586	1.57	13	14	16	11	4.69	2
427X1	M0647	2.82	74	75	69	48	3.06	17
427X1	M0662	1.61	74	74	69	46	2.52	6

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT SURFACE FOR CLEANLINESS AND READINESS FOR COATINGS
(WATER BREAK TEST)
OBTAIN COATING NEEDED
MASK AREA
M0647 LAY DOWN AIRCRAFT BARRIER PAPER
DON SAFETY EQUIPMENT
APPLY COATING TO REQUIRED THICKNESS AND NUMBER OF COATS
M0662 PICK UP AIRCRAFT BARRIER PAPER
L0570 CLEAN AREAS AFTER APPLYING PROTECTIVE COATINGS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE ABRASIVE PAPER
APPLY MASKING MATERIALS
APPLY SOLVENTS
USE AEROSOL SPRAYS
APPLY PROTECTIVE COATINGS
USE STENCILS
USE EMERGENCY EYE WASH/SHOWERS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF PLASTICS
SELECT SOLVENTS
SELECT MASKING MATERIALS
SELECT PROTECTIVE COATINGS
RECALL TYPES/USES OF STENCILS

RELATED TASKS

G0243	ATTACH RESTRAINT OR SAFETY HARNESES
G0244	ATTACH STATIC GROUNDS
G0301	REMOVE RESTRAINT OR SAFETY HARNESES
G0302	REMOVE STATIC GROUNDS
J0372	IDENTIFY PROTECTIVE COATINGS BY VISUAL INSPECTIONS
J0460	RESEARCH TECHNICAL DATA TO IDENTIFY PROTECTIVE COATINGS
L0519	APPLY ENAMELS TO SURFACES USING AEROSOL SPRAYS
L0527	APPLY EPOXY COATINGS TO SURFACES USING AEROSOL SPRAYS
L0535	APPLY FLUORESCENT COATINGS TO SIGNAL EQUIPMENT
L0538	APPLY LACQUERS TO SURFACES USING AEROSOL SPRAYS
L0546	APPLY POLYURETHANE COATINGS TO SURFACES USING AEROSOL SPRAYS
L0553	APPLY PRIMERS TO SURFACES USING AEROSOL SPRAYS
L0586	PAINT EMERGENCY EQUIPMENT

TASK #: 00930

APPLY PROTECTIVE COATINGS USING ROLLERS

EQUIPMENT:

PAN (FOR PAINT)
THINNER
SOLVENTS
MASKING MATERIALS
RESPIRATOR
EYE PROTECTION
GLOVES
COVERALLS

REFERENCES:

T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
T.O. 1-1-8 (APPLICATION OF ORGANIC COATINGS)

CONDITIONS CUES:

CONDITION: FLIGHTLINE, HANGER, OR IN SHOP
CONSTRAINT: SURFACE MUST BE PREPARED FIRST

STANDARDS:

COATING APPLIED EVENLY WITHOUT RUNS, SAGS, OR BLISTERS

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	J0372	4.20	54	57	56	59	5.64	18
427X1	J0460	3.75	26	32	36	40	5.01	12
427X1	L0524	2.24	30	36	37	29	3.94	15
427X1	L0531	1.37	4	5	5	5	4.10	2
427X1	L0535	1.45	6	5	5	3	4.59	2
427X1	L0550	1.31	6	10	10	6	4.73	2
427X1	L0557	1.43	6	8	8	5	4.22	2
427X1	L0562	2.06	18	19	19	12	5.05	7
427X1	L0585	5.33	90	91	88	63	4.52	18
427X1	L0586	1.57	13	14	16	11	4.69	2
427X1	L0588	3.84	65	65	67	46	4.42	18
427X1	L0589	4.86	76	79	77	54	5.00	18
427X1	L0591	6.04	89	90	85	64	5.15	18
427X1	L0592	5.41	81	83	80	59	4.86	18
427X1	L0603	3.49	77	81	78	57	3.45	17
427X1	L0604	1.76	10	12	12	12	5.75	2
427X1	M0621	2.63	65	67	60	36	3.51	17
427X1	M0647	2.82	74	75	69	48	3.06	17
427X1	M0662	1.61	74	74	69	46	2.52	6
427X1	R0816	2.27	22	24	24	18	4.65	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT SURFACE FOR CLEANLINESS AND READINESS FOR COATINGS
(WATER BREAK TEST)
OBTAIN COATING NEEDED
MASK AREA
M0647 LAY DOWN AIRCRAFT BARRIER PAPER
DON SAFETY EQUIPMENT
APPLY COATING TO REQUIRED THICKNESS AND NUMBER OF COATS
M0662 PICK UP AIRCRAFT BARRIER PAPER
M0621 CLEAN PAINTING EQUIPMENT, SUCH AS BRUSHES OR ROLLERS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
APPLY MASKING MATERIALS
APPLY SOLVENTS
APPLY PROTECTIVE COATINGS
USE PAINT ROLLERS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
SELECT SOLVENTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
SELECT MASKING MATERIALS
SELECT PROTECTIVE COATINGS
SELECT PAINT ROLLERS

RELATED TASKS

J0372 IDENTIFY PROTECTIVE COATINGS BY VISUAL INSPECTIONS
J0460 RESEARCH TECHNICAL DATA TO IDENTIFY PROTECTIVE COATINGS
L0524 APPLY ENAMELS TO SURFACES USING ROLLERS
L0531 APPLY EPOXY COATINGS TO SURFACES USING ROLLERS
L0535 APPLY FLUORESCENT COATINGS TO SIGNAL EQUIPMENT
L0550 APPLY POLYURETHANE COATINGS TO SURFACES USING ROLLERS
L0557 APPLY PRIMERS TO SURFACES USING ROLLERS
L0562 APPLY STRIPPABLE COATING COMPOUNDS TO SURFACES
L0585 MIX PAINTS
L0586 PAINT EMERGENCY EQUIPMENT
L0588 PREPARE ENAMELS FOR APPLICATION
L0589 PREPARE EPOXY COATINGS FOR APPLICATION
L0591 PREPARE POLYURETHANE COATINGS FOR APPLICATION
L0592 PREPARE PRIMERS FOR APPLICATION
L0603 STRAIN PAINTS
L0604 TINT PAINT COLORS

R0816 APPLY PROTECTIVE COATING TO SEALED AREAS

TASK #: 00940
LAYOUT AND CUT STENCILS

EQUIPMENT:

STENCIL MACHINE
PAPER CUTTER
KNIVES OR CUTTING INSTRUMENTS
COMPASS
DIVIDERS
STRAIGHT EDGE
RULER OR MEASURING DEVICE
PROTRACTOR
MASKING TAPE
PENCIL
TEMPLATE

REFERENCES:

T.O. 1-1-4 (AIRCRAFT MARKINGS)
T.O. 35-1-3 (AGE)
APPLICABLE AIRCRAFT -3 AND -23 T.O.

CONDITIONS CUES:

CONDITION: IN SHOP

STANDARDS:

LAYOUT AND CUT CORRECT STYLE AND SIZE STENCIL

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	L0571	3.71	32	33	33	26	5.78	12
427X1	L0572	4.31	48	49	49	42	5.24	12
427X1	L0574	4.59	62	66	67	58	6.04	18
427X1	L0575	3.88	73	74	73	62	4.16	18
427X1	L0577	1.92	5	5	6	5	7.05	2
427X1	M0645	3.12	38	44	48	53	3.73	15

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

L0574 LAYOUT AND CUT STENCILS USING HAND METHOD
- SELECT STYLE AND SIZE OF MARKING USING T.O.
- LAYOUT (DRAW) MARKING ON STENCIL BOARD
- FABRICATE STENCILS BY HAND
- CUT OUT STENCILS USING KNIFE OR OTHER CUTTING INSTRUMENT

LAYOUT AND CUT STENCILS USING MACHINE METHOD

- SELECT STYLE AND SIZE OF MARKING USING T.O.
- LAYOUT STENCIL BOARD FOR PROPER LOCATION OF MARKINGS
- M0645 - INSPECT STENCIL MACHINES
- L0575 - FABRICATE STENCILS BY MACHINE
- CUT STENCIL USING MACHINE

SKILLS

USE COMMON HANDTOOLS
USE STANDARD MEASURING INSTRUMENTS
APPLY MASKING MATERIALS
USE STENCIL MACHINES
USE STENCILS
USE TEMPLATES

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
SELECT COMMON HANDTOOLS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT MASKING MATERIALS
RECOGNIZE CAPABILITIES/APPLICATIONS OF STENCIL MACHINES
RECALL TYPES/USES OF STENCILS
RECALL TYPES/USES OF TEMPLATES

RELATED TASKS

- L0571 CUT DECAL OVERLAY STENCILS
- L0572 CUT DECAL STENCILS
- L0577 MAKE EMBLEM STENCILS USING SILKSCREEN METHOD

TASK #: 00950
 APPLY MARKINGS

EQUIPMENT:

MARKING PENCIL (AIRCRAFT)
 STENCIL
 MASKING MATERIALS
 DECALS
 SURFACE PREP MATERIALS
 PAINTING SAFETY EQUIPMENT (RESPIRATOR, GOGGLES, ETC.)
 EMERGENCY EYE WASH/SHOWER
 PAINT
 SEALANT
 SPRAY PAINTING EQUIPMENT

REFERENCES:

T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
 T.O. 1-1-4 (AIRCRAFT MARKINGS)
 T.O. 1-1-8 (APPLICATION OF ORGANIC COATINGS)
 APPLICABLE AIRCRAFT -3 AND -23 T.O.
 APPLICABLE COMMAND REGULATIONS

CONDITIONS CUES:

CONDITION: FLIGHTLINE, HANGER, OR IN SHOP

STANDARDS:

APPLY MARKING TO CORRECT LOCATION, SIZE, AND COLOR WITHOUT RUNS, SAGS,
 OVERSPRAY, OR UNDERSPRAY

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	G0243	4.06	36	39	37	25	3.88	12
427X1	G0301	2.14	23	24	22	15	3.57	7
427X1	G0311	3.24	73	74	71	47	3.19	17
427X1	J0372	4.20	54	57	56	59	5.64	18
427X1	J0460	3.75	26	32	36	40	5.01	12
427X1	L0510	5.24	83	83	80	57	4.98	18
427X1	L0536	1.43	5	4	5	5	3.92	2
427X1	L0543	3.37	52	49	48	30	4.71	15
427X1	L0544	1.25	6	6	4	1	4.69	2
427X1	L0561	2.43	11	11	12	9	6.23	7
427X1	L0573	2.02	14	15	16	14	6.52	2
427X1	L0578	1.33	4	4	4	4	4.40	2
427X1	L0579	1.35	5	4	4	3	4.30	2
427X1	L0580	2.94	30	31	31	21	5.19	15

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	L0581	3.04	34	34	37	24	5.13	15
427X1	L0595	2.73	29	30	29	20	5.46	15
427X1	M0649	1.96	19	18	23	30	3.07	2
427X1	00712	.63	4	5	3	0	4.41	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

APPLY MARKINGS USING PAINT APPLICATION METHOD

- CLEAN AND PREPARE SURFACE
- MARK AREA USING STENCIL AND AIRCRAFT MARKING PENCIL
- MASK OFF AREAS NOT TO BE PAINTED
- APPLY PAINT
- REMOVE MASKING MATERIAL

APPLY MARKINGS USING DECAL APPLICATION METHOD

- CLEAN AND PREPARE SURFACE
- APPLY DECAL TO LOCATION
- APPLY EDGE SEALANT (IF REQUIRED)

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
 USE AIRCRAFT MARKING PENCIL
 USE STANDARD MEASURING INSTRUMENTS
 APPLY MASKING MATERIALS
 APPLY SOLVENTS
 APPLY SEALANTS
 USE AEROSOL SPRAYS
 APPLY PROTECTIVE COATINGS
 USE AEROSOL POWER PACKS
 USE SUCTION FEED SPRAY GUNS
 USE STENCILS
 USE EMERGENCY EYE WASH/SHOWERS

KNOWLEDGE

INTERPRET TECHNICAL DATA
 LOCATE TECHNICAL DATA
 RECALL SHOP SAFETY PRECAUTIONS
 RECALL FLIGHTLINE SAFETY PRECAUTIONS
 RECALL CHEMICAL SAFETY PRECAUTIONS
 RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
 SELECT SPECIAL TOOLS
 RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
 SELECT SOLVENTS
 SELECT SEALANTS
 PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
 SELECT MASKING MATERIALS
 SELECT PROTECTIVE COATINGS

RECOGNIZE CAPABILITIES/APPLICATIONS OF AEROSOL POWER PACKS
RECOGNIZE CAPABILITIES/APPLICATIONS OF SUCTION FEED SPRAY GUNS
RECALL TYPES/USES OF STENCILS
SELECT DECALS

RELATED TASKS

G0243 ATTACH RESTRAINT OR SAFETY HARNESES
G0301 REMOVE RESTRAINT OR SAFETY HARNESES
G0311 STENCIL CHEMICAL WASTE BARRELS
J0372 IDENTIFY PROTECTIVE COATINGS BY VISUAL INSPECTIONS
J0460 RESEARCH TECHNICAL DATA TO IDENTIFY PROTECTIVE COATINGS
L0510 APPLY AIRCRAFT MARKINGS USING STENCILS
L0536 APPLY GLASS BEADS TO WET PAINT
L0543 APPLY MARKINGS TO SUPPORT EQUIPMENT USING STENCILS
L0544 APPLY MISSILE FACILITY MARKINGS USING STENCILS
L0561 APPLY SILKSCREENED EMBLEMS
L0573 DRAW EMBLEMS ON AIRCRAFT
L0578 MARK EMERGENCY EQUIPMENT, SUCH AS CANOPY KNIVES OR AXES USING
REFLECTIVE PAINTS
L0579 MARK EMERGENCY EQUIPMENT, SUCH AS CANOPY KNIVES OR AXES USING
REFLECTIVE TAPES
L0580 MARK LOCATION OF EMBLEMS ON AIRCRAFT
L0581 MARK LOCATION OF LETTERS ON AIRCRAFT
L0595 PRINT LETTERS ON AIRCRAFT
M0649 MARK POUNDS PER SQUARE INCH (PSI) ON AIR LINES
O0712 PAINT TOP SIDE ALIGNMENT MARKINGS

TASK #: 00960

MEASURE COATING THICKNESS

NOTES:

DRY METHOD USED ON FERROUS MATERIALS ONLY (NOT USUALLY USED)
WET METHOD USED ON ANY SURFACE, WHILE PAINTING USING TEST PANEL (MOST COMMON)

EQUIPMENT:

SAFETY EQUIPMENT
WET FILM THICKNESS GAGE
DRY FILM THICKNESS GAGE

REFERENCES:

T.O. 1-1-8 (APPLICATION OF ORGANIC COATINGS)
T.O. 35-1-3 (AGE)
APPLICABLE AIRCRAFT -23 T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE, HANGER, OR IN SHOP
CUES: NORMALLY PERFORMED WHILE PAINTING (WET FILM)

STANDARDS:

COATING MEASURED TO PROPER THICKNESS

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	L0582	2.75	8	10	11	11	5.50	7
427X1	L0583	2.96	14	13	12	12	5.35	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

L0582 MEASURE COATING THICKNESS USING DRY FILM GAUGES
L0583 MEASURE COATING THICKNESS USING WET FILM GAUGES (WHILE PAINTING)

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE FILM THICKNESS GAGES

KNOWLEDGE

INTERPRET TECHNICAL DATA

LOCATE TECHNICAL DATA

RECALL SHOP SAFETY PRECAUTIONS

RECALL FLIGHTLINE SAFETY PRECAUTIONS

RECALL CHEMICAL SAFETY PRECAUTIONS

RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING

SELECT SPECIAL TOOLS

PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)

INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)

TASK #: 00970
CLEAN CHEMICAL TANKS (M0614)

EQUIPMENT:

SAFETY EQUIPMENT
EMERGENCY EYE WASH/SHOWER
PUMP
COMMON HANDTOOLS
SOLVENT
NEUTRALIZING AGENT
STEAM CLEANING EQUIPMENT

REFERENCES:

AFOSH STDS
LOCAL DIRECTIVES

CONDITIONS CUES:

CONDITION: HANGER OR IN SHOP
CUE: PERFORMED WHEN CHEMICALS REQUIRE REPLACEMENT

STANDARDS:

WITHOUT SPILLS OR DAMAGE TO ENVIRONMENT

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	M0614	2.45	15	19	19	16	4.81	7
427X1	G0310	.47	1	2	2	2	3.34	2
427X1	M0634	2.16	12	15	16	15	3.82	7
427X1	M0639	1.84	15	17	19	16	4.20	2
427X1	M0642	1.73	12	12	12	20	4.25	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

G0310 STEAM OUT TANK
M0634 DRAIN CHEMICAL TANKS
M0639 FILL CHEMICAL TANKS
M0642 INSPECT CHEMICAL TANKS

SKILLS

- USE PERSONAL PROTECTIVE EQUIPMENT
- USE COMMON HANDTOOLS
- USE PUMP
- APPLY SOLVENTS
- APPLY NEUTRALIZING AGENTS
- USE STEAM CLEANING EQUIPMENT
- USE EMERGENCY EYE WASH/SHOWERS

KNOWLEDGE

- INTERPRET TECHNICAL DATA
- LOCATE TECHNICAL DATA
- RECALL SHOP SAFETY PRECAUTIONS
- RECALL CHEMICAL SAFETY PRECAUTIONS
- RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
- SELECT COMMON HANDTOOLS
- SELECT SPECIAL TOOLS
- SELECT SOLVENTS
- SELECT NEUTRALIZING AGENTS
- PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
- RECOGNIZE CAPABILITIES/APPLICATIONS OF STEAM CLEANING EQUIPMENT

TASK #: 00980

PERFORM OPERATOR MAINTENANCE ON ABRASIVE GRIT BLAST ROOMS (AGBR) (M0654)

NOTES:

EQUIPMENT IS AT ONLY A FEW LOCATIONS
TASK REQUIRES AN OBSERVER FOR SAFETY

EQUIPMENT:

HOOD
EAR PROTECTION
COVERALLS
GLOVES
COMMON HANDTOOLS
ABRASIVE GRIT (BLAST MEDIA)
POWER SOURCE(S)

REFERENCES:

T.O. 1-1-2 (CORROSION PREVENTION AND CONTROL FOR AEROSPACE EQUIPMENT)
MANUFACTURES MANUAL

CONDITIONS CUES:

CONDITION: IN BOOTH

STANDARDS:

IAW MANUFACTURES MANUAL OR APPLICABLE T.O.

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	H0326	6.69	67	70	71	69	5.51	18
427X1	M0654	2.29	7	4	4	4	5.21	7
427X1	M0611	2.53	10	10	10	8	3.88	7
427X1	M0675	2.29	5	5	6	5	3.54	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

M0611 CLEAN ABRASIVE GRIT BLAST ROOMS (ABGR)
M0675 REPLACE BLAST MEDIUM IN AGBR
ASSEMBLE OR DISASSEMBLE PARTS AS NEEDED

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
OPERATE ABRASIVE BLASTERS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
H0326 IDENTIFY TYPES/CHARACTERISTICS OF CORROSION
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
SELECT COMMON HANDTOOLS
IDENTIFY CAPABILITIES/APPLICATIONS OF ABRASIVE BLASTERS

TASK #: 00990

PERFORM OPERATOR MAINTENANCE ON AIRLESS SPRAY EQUIPMENT (M0655)

EQUIPMENT:

THINNER/STRIPPER
RAGS
COMMON HANDTOOLS
SAFETY EQUIPMENT
EMERGENCY EYE WASH/SHOWER

REFERENCES:

APPLICABLE EQUIPMENT OPERATORS MANUAL/T.O.
T.O. 1-1-8 (APPLICATION OF ORGANIC COATINGS)
AFOSH STD 127-17 (INTERIOR SPRAY FINISHING)

CONDITIONS CUES:

CONDITION: IN SHOP

STANDARDS:

IAW APPLICABLE EQUIPMENT OPERATORS MANUAL/T.O.

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	M0655	3.37	6	8	10	14	5.67	7
427X1	M0613	3.67	20	21	22	18	5.36	11
427X1	M0619	4.35	79	78	76	56	4.58	18
427X1	M0630	2.67	13	15	16	14	5.52	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT EQUIPMENT FOR OPERATIONAL CONDITION
- CHECK HOSES FOR CRACKS, BULGES, WORN SPOTS, AND OVERALL
CONDITION
- CHECK CONNECTIONS FOR SECURITY
- CHECK GUN OPERATIONALLY FOR SPRAY PATTERN
M0630 DISASSEMBLE AIRLESS SPRAY EQUIPMENT FOR CLEANING AND STORAGE
M0613 CLEAN AIRLESS SPRAY EQUIPMENT
- EMPTY MATERIAL CONTAINER AND CLEAN
- SPRAY THINNER THROUGH SYSTEM UNTIL CLEAN
- CLEAN EXTERIOR OF UNIT
- CLEAN FILTER
- LUBRICATE SPRAY UNIT
CHANGE FLUID TIP IF NECESSARY FOR CHANGING PATTERN OR
APPLICATION

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
APPLY SOLVENTS
USE AIRLESS SPRAY GUNS
USE EMERGENCY EYE WASH/SHOWERS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
SELECT COMMON HANDTOOLS
SELECT COMMON HARDWARE
SELECT SOLVENTS
RECOGNIZE CAPABILITIES/APPLICATIONS OF AIRLESS SPRAY GUNS

RELATED TASKS

M0619 CLEAN EQUIPMENT AFTER APPLYING PROTECTIVE COATINGS

TASK #: 01000

PERFORM OPERATOR MAINTENANCE ON ELECTROSTATIC SPRAY EQUIPMENT (M0656)

NOTES:

SOME MANUFACTURERS HAVE CASSETTE TAPES ON HOW TO CLEAN THE EQUIPMENT

EQUIPMENT:

SAFETY EQUIPMENT

THINNER

RAGS

COMMON HANDTOOLS

REFERENCES:

APPLICABLE EQUIPMENT OPERATORS MANUAL/T.O.

T.O. 1-1-8 (APPLICATION OF ORGANIC COATINGS)

AFOSH STD 127-17 (INTERIOR SPRAY FINISHING)

CONDITIONS CUES:

CONDITION: IN SHOP

CUE: TASK PERFORMED USUALLY AFTER EVERY FORTH PAINT JOB

STANDARDS:

IAW APPLICABLE EQUIPMENT OPERATORS MANUAL/T.O.

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	M0656	1.75	2	2	2	2	5.54	2
427X1	M0618	1.35	1	1	1	1	5.25	2
427X1	M0619	4.35	79	78	76	56	4.58	18
427X1	M0631	1.55	2	2	1	2	5.89	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT EQUIPMENT FOR OPERATIONAL CONDITION

- CHECK HOSES FOR CRACKS, BULGES, WORN SPOTS, AND OVERALL
CONDITION

- CHECK CONNECTIONS FOR SECURITY

- CHECK GUN OPERATIONALLY FOR SPRAY PATTERN

M0631 DISASSEMBLE ELECTROSTATIC SPRAY EQUIPMENT FOR CLEANING AND STORAGE

M0618 CLEAN ELECTROSTATIC FEED POWER PACK EQUIPMENT

- RELEASE PRESSURE TO FILTER, HOSE, AND GUN
- DISCONNECT AIR HOSE TO GUN
- DISPOSE OF PAINT IN BUCKET
- WASH BUCKET AND LOWER PUMP UNIT AND DUMP
- REMOVE 2 FILTERS (TANK/IN-LINE) OUT AND REPLACE FILTER CAPS AND COVERS
- CLEAN FILTERS SEPARATELY
- PUT CLEAN THINNER IN BUCKET AND SPRAY THROUGH GUN WITH TIP ATTACHED UNTIL CLEAR THINNER COMES OUT, PLUS 3-4 SECONDS
- REMOVE AIR CAP RING AND TIP AND CLEAN
- CLEAN EXTERIOR OF GUN
- REASSEMBLE GUN LEAVING ENOUGH THINNER IN BUCKET TO RUN

OPERATIONAL CHECK

CHECK OIL IN WET CUP (SPECIFIC OIL THAT IS PAINT COMPATIBLE)

RUN UNIT TO ENSURE GAGES AND THE PUMP ARE RUNNING RIGHT

CHECK GUN FOR PROPER OPERATION

CHANGE FLUID TIP IF NECESSARY FOR CHANGING PATTERN OR APPLICATION

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT

USE COMMON HANDTOOLS

APPLY SOLVENTS

USE ELECTROSTATIC SPRAY EQUIPMENT

KNOWLEDGE

INTERPRET TECHNICAL DATA

LOCATE TECHNICAL DATA

RECALL SHOP SAFETY PRECAUTIONS

RECALL CHEMICAL SAFETY PRECAUTIONS

RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING

SELECT COMMON HANDTOOLS

SELECT COMMON HARDWARE

SELECT SOLVENTS

RECOGNIZE CAPABILITIES/APPLICATIONS OF ELECTROSTATIC SPRAY EQUIPMENT

RELATED TASKS

M0619 CLEAN EQUIPMENT AFTER APPLYING PROTECTIVE COATINGS

TASK #: 01010

PERFORM OPERATOR MAINTENANCE ON PRESSURE FEED SPRAY EQUIPMENT (M0657)

EQUIPMENT:

COMMON HANDTOOLS
THINNER/STRIPPER
RAGS
PAINT BRUSH
WIRE BRUSH
OVERHAUL KIT
LUBRICANT
AIR SUPPLY/HOSES
EMERGENCY EYE WASH/SHOWER
RESPIRATOR
GOGGLES
GLOVES
APRON
COVERALLS

REFERENCES:

APPLICABLE EQUIPMENT OPERATORS MANUAL/T.O.
T.O. 1-1-8 (APPLICATION OF ORGANIC COATINGS)

CONDITIONS CUES:

CONDITION: IN SHOP

STANDARDS:

IAW APPLICABLE EQUIPMENT OPERATORS MANUAL/T.O.

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	M0657	4.04	29	34	34	28	4.92	12
427X1	M0619	4.35	79	78	76	56	4.58	18
427X1	M0623	3.76	38	43	41	25	4.71	12
427X1	M0632	3.59	38	42	39	25	4.96	12
427X1	M0666	2.12	11	16	20	23	3.65	7
427X1	M0672	2.04	10	15	19	25	3.59	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT EQUIPMENT FOR OPERATIONAL CONDITION
- CHECK HOSES FOR CRACKS, BULGES, WORN SPOTS, AND OVERALL
CONDITION
- CHECK CONNECTIONS FOR SECURITY
- CHECK GUN OPERATIONALLY FOR SPRAY PATTERN

M0632 DISASSEMBLE PRESSURE FEED SPRAY EQUIPMENT FOR CLEANING AND STORAGE

M0623 CLEAN PRESSURE FEED SPRAY EQUIPMENT

- CLEAN FLUID HOSE AND PRESSURE TANK
- SPRAY THINNER THROUGH GUN UNTIL CLEAN
- CLEAN AIR CAP AND FLUID TIP
- REPLACE PARTS USING OVERHAUL KIT IF REQUIRED
- CLEAN EXTERIOR OF GUN
- LUBRICATE SPRAY UNIT

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT

USE COMMON HANDTOOLS

USE WIRE BRUSHES/WHEELS

APPLY SOLVENTS

APPLY LUBRICANTS

USE PRESSURE FEED SPRAY GUNS

USE EMERGENCY EYE WASH/SHOWERS

KNOWLEDGE

INTERPRET TECHNICAL DATA

LOCATE TECHNICAL DATA

RECALL SHOP SAFETY PRECAUTIONS

RECALL CHEMICAL SAFETY PRECAUTIONS

RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING

SELECT COMMON HANDTOOLS

SELECT WIRE BRUSHES/WHEELS

SELECT COMMON HARDWARE

SELECT SOLVENTS

RECOGNIZE CAPABILITIES/APPLICATIONS OF PRESSURE FEED SPRAY GUNS

SELECT LUBRICANTS

SELECT PAINT BRUSHES

RELATED TASKS

M0619 CLEAN EQUIPMENT AFTER APPLYING PROTECTIVE COATINGS

M0666 REMOVE GAUGES

M0672 REPLACE GAUGES

TASK #: 01020

PERFORM OPERATOR MAINTENANCE ON SUCTION FEED SPRAY EQUIPMENT (M0658)

EQUIPMENT:

COMMON HANDTOOLS
THINNER/STRIPPER
RAGS
OVERHAUL KIT
WIRE BRUSH
LUBRICANT
AIR SUPPLY/HOSES
BUCKET
EMERGENCY EYE WASH/SHOWER
RESPIRATOR
GOGGLES
GLOVES
APRON
COVERALLS

REFERENCES:

APPLICABLE EQUIPMENT OPERATORS MANUAL/T.O.
T.O. 1-1-8 (APPLICATION OF ORGANIC COATINGS)

CONDITIONS CUES:

CONDITION: IN SHOP OR HANGER

STANDARDS:

IAW APPLICABLE EQUIPMENT OPERATORS MANUAL/T.O.

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	M0658	5.25	62	67	69	55	4.87	18
427X1	M0612	2.73	53	58	58	34	3.64	17
427X1	M0619	4.35	79	78	76	56	4.58	18
427X1	M0626	4.76	66	68	69	52	4.62	18
427X1	M0629	2.24	43	49	49	28	3.66	15
427X1	M0633	4.67	71	71	71	53	4.77	18

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT EQUIPMENT FOR OPERATIONAL CONDITION
- CHECK HOSES FOR CRACKS, BULGES, WORN SPOTS, AND OVERALL
CONDITION

- CHECK CONNECTIONS FOR SECURITY
- CHECK GUN OPERATIONALLY FOR SPRAY PATTERN

M0633 DISASSEMBLE SUCTION FEED SPRAY EQUIPMENT FOR CLEANING AND STORAGE

- M0626 CLEAN SUCTION FEED SPRAY EQUIPMENT
- EMPTY CUP AND CLEAN
 - SPRAY THINNER THROUGH GUN UNTIL CLEAN .
 - CLEAN AIR CAP AND FLUID TIP
 - REPLACE PARTS USING OVERHAUL KIT IF REQUIRED
 - CLEAN EXTERIOR OF GUN
 - LUBRICATE SPRAY UNIT
- CAP AIR FITTING WHEN PLACING IN STORAGE

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE WIRE BRUSHES/WHEELS
APPLY SOLVENTS
APPLY LUBRICANTS
USE AEROSOL POWER PACKS
USE SUCTION FEED SPRAY GUNS
USE EMERGENCY EYE WASH/SHOWERS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
SELECT COMMON HANDTOOLS
SELECT WIRE BRUSHES/WHEELS
SELECT COMMON HARDWARE
SELECT SOLVENTS
SELECT LUBRICANTS
RECOGNIZE CAPABILITIES/APPLICATIONS OF AEROSOL POWER PACKS
RECOGNIZE CAPABILITIES/APPLICATIONS OF SUCTION FEED SPRAY GUNS

RELATED TASKS

- M0612 CLEAN AEROSOL POWER PACK EQUIPMENT
M0619 CLEAN EQUIPMENT AFTER APPLYING PROTECTIVE COATINGS
M0629 DISASSEMBLE AEROSOL POWER PACK EQUIPMENT FOR CLEANING AND STORAGE

TASK #: 01030

PERFORM OPERATOR MAINTENANCE ON SPRAY BOOTHS

EQUIPMENT:

SAFETY EQUIPMENT
FILTERS
PAPER
TAPE
VACUUM CLEANER
COMMON HANDTOOLS
EDGES FOR CUTTING
WATER SUPPLY
EMERGENCY EYE WASH/SHOWER

REFERENCES:

APPLICABLE EQUIPMENT OPERATORS MANUAL/T.O.
T.O. 1-1-8 (APPLICATION OF ORGANIC COATINGS)
AFOSH STD 127-17 (INTERIOR SPRAY FINISHING)

CONDITIONS CUES:

CONDITION: SPRAY BOOTH

STANDARDS:

LAW APPLICABLE EQUIPMENT OPERATORS MANUAL/T.O.

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	M0610	2.96	31	36	37	29	3.29	15
427X1	M0616	2.78	30	33	32	21	4.00	15
427X1	M0628	3.43	47	43	38	27	4.76	15
427X1	M0636	2.86	34	34	34	25	3.18	15
427X1	M0643	2.24	10	13	17	23	3.99	7
427X1	M0646	2.78	25	25	27	31	4.33	7
427X1	M0647	2.82	74	75	69	48	3.06	17
427X1	M0662	1.61	74	74	69	46	2.52	6
427X1	M0667	1.76	19	20	20	12	3.02	2
427X1	M0673	1.69	17	20	19	11	3.19	2
427X1	M0681	2.39	30	29	27	18	2.79	3

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

- PERFORM OPERATOR MAINTENANCE ON DRY TYPE SPRAY BOOTH
- M0610 - CHANGE DRY SPRAY BOOTH FILTERS
 - M0667 - REMOVE PAPER ROLLS IN DRY SPRAY BOOTHS
 - M0673 - REPLACE PAPER ROLLS IN DRY SPRAY BOOTHS
 - M0643 - INSPECT DRY SPRAY BOOTHS
 - M0616 - CLEAN DRY SPRAY BOOTHS
- PERFORM OPERATOR MAINTENANCE ON WET TYPE SPRAY BOOTH
- M0646 - INSPECT WET SPRAY BOOTHS
 - M0681 - SKIM MATERIALS OFF WET SPRAY BOOTH WATER
 - M0662 - PICK UP AIRCRAFT BARRIER PAPER
 - M0647 - LAY DOWN AIRCRAFT BARRIER PAPER
 - M0636 - DRAIN WET SPRAY BOOTHS
 - M0628 - CLEAN WET SPRAY BOOTHS
 - REFILL WATER
 - CLEAN OVERSPRAY FROM WALLS AND FLOOR

SKILLS

- USE PERSONAL PROTECTIVE EQUIPMENT
- USE COMMON HANDTOOLS
- APPLY MASKING MATERIALS
- USE VACUUM CLEANERS
- USE EMERGENCY EYE WASH/SHOWERS

KNOWLEDGE

- INTERPRET TECHNICAL DATA
- LOCATE TECHNICAL DATA
- RECALL SHOP SAFETY PRECAUTIONS
- RECALL CHEMICAL SAFETY PRECAUTIONS
- RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
- SELECT COMMON HANDTOOLS
- SELECT MASKING MATERIALS

TASK #: 01040
PERFORM OPERATOR MAINTENANCE ON AIR COMPRESSORS

NOTES:

CE NORMALLY PERFORMS THIS TASK FOR FIXED COMPRESSORS (LOCATED IN LOCKED BUILDING)
AGE COMPRESSORS ARE MAINTAINED BY AGE PERSONNEL
DAILY MAINTENANCE AND INSPECTION PERFORMED BY USER

EQUIPMENT:

COMMON HANDTOOLS
EAR PROTECTION
LUBRICANT

REFERENCES:

APPLICABLE EQUIPMENT OPERATORS MANUAL/T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE, HANGER, OR IN SHOP

STANDARDS:

IAW EQUIPMENT OPERATORS MANUAL/T.O.

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	M0609	2.22	15	17	17	16	3.34	7
427X1	M0635	3.41	57	59	58	50	2.94	8
427X1	M0640	3.59	58	64	69	66	3.59	18
427X1	M0641	3.69	57	62	65	63	3.63	18
427X1	M0648	1.55	10	9	10	9	3.71	2
427X1	M0659	2.59	12	14	15	19	4.63	7
427X1	M0663	2.31	56	60	64	53	2.94	8
427X1	M0664	2.47	54	60	62	48	2.77	8
427X1	M0665	2.45	15	21	23	27	3.34	7
427X1	M0666	2.12	11	16	20	23	3.65	7
427X1	M0669	2.65	47	56	62	54	3.38	17
427X1	M0670	2.82	41	49	53	50	3.27	15
427X1	M0671	2.63	14	19	23	25	3.37	7
427X1	M0672	2.04	10	15	19	25	3.59	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

CHECK OIL LEVEL
M0609 ADD OIL TO COMPRESSORS
M0648 LUBRICATE COMPRESSOR MOTORS
CHECK BELTS FOR FRAYED OR TORN PLACES
START COMPRESSOR AND CHECK FOR AIR LEAKS AND PROPER OPERATING
PRESSURE
M0640 INSPECT AIR HOSE FITTINGS
M0641 INSPECT AIR HOSES
M0635 DRAIN SHOP AIR LINES
DRAIN TANK OF AIR AND WATER

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
APPLY LUBRICANTS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
SELECT COMMON HANDTOOLS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
INTERPRET GAGES OR METERS
SELECT LUBRICANTS

RELATED TASKS

M0659 PERFORM PERIODIC INSPECTIONS ON COMPRESSORS
M0663 REMOVE AIR HOSE FITTINGS
M0664 REMOVE AIR HOSES
M0665 REMOVE AIR LINES FILTERS
M0666 REMOVE GAUGES
M0669 REPLACE AIR HOSE FITTINGS
M0670 REPLACE AIR HOSES
M0671 REPLACE AIR LINE FILTERS
M0672 REPLACE GAUGES

TASK #: 01050

PERFORM OPERATOR MAINTENANCE ON VACUUM CLEANERS

NOTES:

SIMPLE MAINTENANCE BUT VACUUM IS FULL OF HAZARDOUS DUST

EQUIPMENT:

COMMON HANDTOOLS
RESPIRATORY DEVICE
EYE PROTECTION
EAR PROTECTION

REFERENCES:

EQUIPMENT OPERATORS MANUAL/T.O.

CONDITIONS CUES:

CONDITION: IN SHOP

STANDARDS:

IAW EQUIPMENT OPERATORS MANUAL/T.O.

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATT
427X1	M0637	1.67	14	14	15	8	2.55	1
427X1	M0668	1.63	7	9	9	7	2.56	1
427X1	M0674	1.63	5	6	6	5	2.61	1

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

M0637 EMPTY VACUUM CLEANERS
M0668 REMOVE VACUUM CLEANER BAGS
M0674 REPLACE VACUUM CLEANER BAGS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE VACUUM CLEANERS

KNOWLEDGE

INTERPRET TECHNICAL DATA

LOCATE TECHNICAL DATA

RECALL SHOP SAFETY PRECAUTIONS

RECALL AIRBORNE FIBER SAFETY PRECAUTIONS

RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING

SELECT COMMON HANDTOOLS

TASK #: 01060

PERFORM OPERATOR MAINTENANCE ON VACUUM BLASTERS

EQUIPMENT:

RAGS
SOLVENT
LUBRICANT
COMMON HANDTOOLS
VACUUM CLEANER
RESPIRATORY PROTECTION
EYE PROTECTION
EAR PROTECTION

REFERENCES:

T.O. 1-1-2 (CORROSION PREVENTION AND CONTROL FOR AEROSPACE EQUIPMENT)
EQUIPMENT OPERATORS MANUAL/T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE, HANGER, OR IN SHOP

STANDARDS:

IAW EQUIPMENT OPERATORS MANUAL/T.O.

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	H0326	6.69	67	70	71	69	5.51	18
427X1	M0627	2.65	5	5	7	7	4.40	7
427X1	M0677	2.24	6	7	9	7	3.45	7
427X1	M0678	2.18	2	2	2	2	3.44	7
427X1	M0680	2.24	1	2	3	4	3.44	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT EQUIPMENT FOR OPERATIONAL CONDITION
CHECK CONDITION OF HOSES, HOPPER, GAGES, TRIGGER, DUST
BAGS/COLLECTOR
- CHECK FOR CRACKS, LOOSE CONNECTIONS AND FITTINGS, TRIGGER FOR
STICKING, DUST COLLECTION FOR EMPTYING
- CHECK FOR CORROSION
M0627 CLEAN VACUUM BLASTERS
EMPTY HOPPER
REPLENISH BLASTING MEDIA
DRAIN WATER SEPARATOR
CLEAN FILTERS
APPLY LUBRICANTS
STORE HOSES

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE COMES WITH BLASTER
APPLY SOLVENTS
APPLY LUBRICANTS
USE VACUUM CLEANERS
USE VACUUM BLASTERS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
H0326 IDENTIFY TYPES/CHARACTERISTICS OF CORROSION
SELECT COMMON HANDTOOLS
SELECT SOLVENTS
SELECT LUBRICANTS
RECOGNIZE CAPABILITIES/APPLICATIONS OF VACUUM BLASTERS

RELATED TASKS

M0677 REPLENISH GLASS BEADS IN VACUUM BLASTERS
M0678 REPLENISH PLASTIC BEADS IN VACUUM BLASTERS
M0680 REPLENISH SAND IN VACUUM BLASTERS

TASK #: 01070

PERFORM OPERATOR MAINTENANCE ON ABRASIVE BLASTING EQUIPMENT

EQUIPMENT:

AIR SUPPLY
BLASTING MEDIA
COMMON HANDTOOLS
EAR PROTECTION
EYE PROTECTION
RESPIRATOR

REFERENCES:

EQUIPMENT OPERATORS MANUAL/T.O.

CONDITIONS CUES:

CONDITION: IN SHOP

STANDARDS:

IAW EQUIPMENT OPERATORS MANUAL/T.O.

OSR SOURCE:

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	M0624	3.33	20	22	22	14	4.81	7
427X1	M0679	2.33	18	21	19	13	3.53	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

M0624 CLEAN SAND BLASTERS
M0679 REPLENISH SAND IN SAND BLASTERS
REPLACE WORN OR BROKEN PARTS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
OPERATE ABRASIVE BLASTERS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
SELECT COMMON HANDTOOLS
SELECT COMMON HARDWARE
SELECT COMMON FASTENERS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET GAGES OR METERS
RECOGNIZE CAPABILITIES/APPLICATIONS OF ABRASIVE BLASTERS

TASK #: 01080

PERFORM OPERATOR MAINTENANCE ON STENCIL MACHINES

EQUIPMENT:

CLEANING SUPPLIES
OIL
RAGS
PROBE
COMMON HANDTOOLS

REFERENCES:

EQUIPMENT OPERATORS MANUAL/T.O.

CONDITIONS CUES:

CONDITION: IN SHOP
CUE: PERFORMED AS PART OF THE 90 DAY PMI

STANDARDS:

IAW EQUIPMENT OPERATORS MANUAL/T.O.

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	M0625	3.57	75	75	72	52	3.57	18
427X1	M0645	3.12	38	44	48	53	3.73	15
427X1	M0652	2.51	21	27	31	38	3.14	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

M0645 INSPECT STENCIL MACHINES
M0625 CLEAN STENCIL MACHINES
CLEAN DIES
REPLACE BROKEN DIES
M0652 OIL STENCIL MACHINES

SKILLS

USE COMMON HANDTOOLS
APPLY SOLVENTS
APPLY LUBRICANTS
USE STENCIL MACHINES

KNOWLEDGE

INTERPRET TECHNICAL DATA

LOCATE TECHNICAL DATA

RECALL SHOP SAFETY PRECAUTIONS

RECALL CHEMICAL SAFETY PRECAUTIONS

SELECT COMMON HANDTOOLS

SELECT SOLVENTS

SELECT LUBRICANTS

RECOGNIZE CAPABILITIES/APPLICATIONS OF STENCIL MACHINES

TASK #: 01090

PERFORM OPERATOR MAINTENANCE ON PNEUMATIC/ELECTRIC POWERED TOOLS

NOTES:

ELECTRIC POWERED TOOLS ARE NOT USED NEARLY AS MUCH AS PNEUMATIC TOOLS

EQUIPMENT:

SOLVENT
OIL
RAGS
BRUSHES
REBUILD KIT
COMMON HANDTOOLS
SAFETY EQUIPMENT

REFERENCES:

EQUIPMENT OPERATORS MANUAL/T.O.

CONDITIONS CUES:

CONDITION: IN SHOP

STANDARDS:

IAW EQUIPMENT OPERATORS MANUAL/T.O.

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	H0326	6.69	67	70	71	69	5.51	18
427X1	M0617	1.31	8	8	7	3	3.75	2
427X1	M0622	3.43	74	78	74	50	3.86	17
427X1	M0650	.63	5	5	5	3	3.16	2
427X1	M0651	3.22	62	69	66	48	3.16	17
427X1	M0660	.84	4	4	3	3	4.45	2
427X1	M0661	2.96	33	36	39	36	4.59	15

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT EQUIPMENT FOR OPERATIONAL CONDITION
- CHECK FOR SURFACE CORROSION
- CHECK HOSES FOR CRACKS OR BULGES
- CHECK CONDITION OF FITTINGS
M0617 CLEAN ELECTRICALLY POWERED TOOLS
M0622 CLEAN PNEUMATICALLY POWERED TOOLS
M0650 OIL ELECTRICALLY POWERED TOOLS
M0651 OIL PNEUMATICALLY POWERED TOOLS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE PNEUMATIC SANDERS
USE PNEUMATIC DRILLS
OPERATE HAND-HELD GRINDERS
USE WIRE BRUSHES/WHEELS
APPLY SOLVENTS
APPLY LUBRICANTS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
H0326 IDENTIFY TYPES/CHARACTERISTICS OF CORROSION
SELECT COMMON HANDTOOLS
SELECT PNEUMATIC HANDTOOLS
SELECT WIRE BRUSHES/WHEELS
SELECT COMMON HARDWARE
SELECT SOLVENTS
SELECT LUBRICANTS

RELATED TASKS

M0660 PERFORM PERIODIC INSPECTIONS OF ELECTRIC CORROSION REMOVAL
EQUIPMENT
M0661 PERFORM PERIODIC INSPECTIONS OF PNEUMATIC CORROSION REMOVAL
EQUIPMENT

TASK #: 01100

PERFORM OPERATOR MAINTENANCE ON RESPIRATOR SYSTEMS

EQUIPMENT:

REPLACEMENT PARTS
FILTERS/CARTRIDGES
SOLVENT
DETERGENT
RAGS
TAPE
COMMON HANDTOOLS
ALCOHOL FOR NON-RUBBER PARTS

REFERENCES:

EQUIPMENT OPERATORS MANUAL/T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE, HANGER, OR IN SHOP

STANDARDS:

IAW EQUIPMENT OPERATORS MANUAL/T.O.

OSR SOURCE:

	JOB AFSC	TNG INV	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	M0644	3.90	47	48	53	59	4.27	12
427X1	Q0763	3.27	18	22	25	26	4.37	7
427X1	Q0764	4.08	79	77	76	56	3.14	18
427X1	Q0765	3.96	75	75	75	53	3.07	18
427X1	Q0772	4.43	83	80	78	55	3.40	18
427X1	Q0778	3.45	31	32	36	45	3.68	15
427X1	Q0779	3.71	29	30	34	43	3.70	12
427X1	Q0780	2.61	10	9	11	18	4.59	7
427X1	Q0781	3.88	49	49	55	52	3.64	12
427X1	Q0789	3.49	14	17	21	33	4.11	7
427X1	Q0795	3.92	57	57	60	59	3.45	18
427X1	Q0801	2.16	6	7	10	16	4.72	7
427X1	Q0806	2.67	29	30	32	26	3.93	15
427X1	Q0807	2.75	7	9	11	18	4.71	7
427X1	Q0808	3.25	16	17	20	21	5.00	7
427X1	Q0810	3.55	52	51	51	45	3.17	18
427X1	Q0811	2.86	15	15	18	20	2.87	3

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

M0644 INSPECT SAFETY EQUIPMENT
Q0778 INSPECT AIR LINE RESPIRATOR HOSE CONNECTIONS
Q0779 INSPECT AIR LINE RESPIRATOR HOSES
Q0780 INSPECT AIR SUPPLY OF AIR LINE RESPIRATOR FOR CO
Q0781 INSPECT CARTRIDGE RESPIRATORS
Q0789 INSPECT IN-LINE RESPIRATOR SYSTEMS
Q0795 INSPECT RESPIRATORS FOR CONDITION AND CLEANLINESS
Q0772 CLEAN RESPIRATORS
Q0763 CHANGE AIR SUPPLIED (IN-LINE) RESPIRATOR SYSTEM FILTERS
Q0764 CHANGE RESPIRATOR CARTRIDGES
Q0765 CHANGE RESPIRATOR FILTERS
Q0801 REMOVE IN-LINE RESPIRATOR SYSTEM PARTS
Q0807 REPLACE IN-LINE RESPIRATOR SYSTEM PARTS
Q0806 REPAIR RESPIRATORS
Q0811 TAPE OFF AIR LINE RESPIRATOR HOSE CONNECTIONS
Q0810 STORE RESPIRATORS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
APPLY MASKING MATERIALS
APPLY SOLVENTS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL AIRBORNE FIBER SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
SELECT COMMON HANDTOOLS
SELECT COMMON HARDWARE
SELECT SOLVENTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET GAGES OR METERS
SELECT MASKING MATERIALS

RELATED TASKS

Q0808 SET UP IN-LINE RESPIRATOR SYSTEMS

TASK #: 01110

PERFORM OPERATOR MAINTENANCE ON PERSONAL SAFETY EQUIPMENT

EQUIPMENT:

COMMON HANDTOOLS
ALCOHOL PADS
SOAP AND WATER
SANITIZER
TALCUM POWDER

REFERENCES:

T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
T.O. 1-1-2 (CORROSION PREVENTION AND CONTROL FOR AEROSPACE EQUIPMENT)
T.O. 1-1-8 (APPLICATION OF ORGANIC COATINGS)
AFOSH STDS

CONDITIONS CUES:

CONDITION: IN SHOP
CUE: CLEAN AND INSPECT PRIOR TO EACH USE

STANDARDS:

CLEAN AND MAINTAIN EQUIPMENT IN SERVICEABLE CONDITION

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	M0644	3.90	47	48	53	59	4.27	12
427X1	Q0766	2.76	57	57	54	40	2.73	8
427X1	Q0767	3.27	60	58	55	40	2.59	8
427X1	Q0768	3.35	66	65	60	42	2.81	8
427X1	Q0769	3.22	66	66	63	43	2.79	8
427X1	Q0770	2.10	16	17	16	12	2.72	3
427X1	Q0771	1.94	19	18	17	10	2.75	1
427X1	Q0773	3.04	40	38	38	27	3.05	15
427X1	Q0774	2.75	56	55	52	34	2.70	8
427X1	Q0775	2.67	44	48	50	42	2.80	5
427X1	Q0776	3.92	57	60	63	55	3.26	18
427X1	Q0782	3.18	50	51	54	50	3.03	17
427X1	Q0783	2.76	47	46	48	48	2.96	5
427X1	Q0785	3.18	53	53	55	55	2.98	8
427X1	Q0786	3.24	53	53	56	58	3.00	8
427X1	Q0787	2.69	12	15	16	18	2.96	3
427X1	Q0788	2.47	17	17	17	16	3.69	7
427X1	Q0792	2.14	22	23	23	19	2.91	3
427X1	Q0793	2.78	37	37	36	31	2.86	5
427X1	Q0796	2.98	36	36	37	39	3.07	15
427X1	Q0797	3.04	47	49	50	48	3.06	15
427X1	Q0798	2.69	38	42	45	44	2.95	5
427X1	Q0799	1.94	28	30	32	26	2.71	4

	JOB	TNG	1ST	1ST	5	7	TSK	
AFSC	INV	EMP	JOB	ENL	LVL	LVL	DIF	ATI
427X1	Q0802	1.67	10	10	11	10	3.30	2
427X1	Q0803	1.78	17	19	20	18	3.16	2
427X1	Q0804	1.69	14	16	15	12	3.22	2
427X1	Q0805	1.69	5	4	5	4	3.29	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

M0644 INSPECT SAFETY EQUIPMENT
 Q0766 CLEAN COVERALLS
 Q0767 CLEAN EAR PROTECTORS
 Q0768 CLEAN FACE SHIELDS
 Q0769 CLEAN GOGGLES
 Q0770 CLEAN HARD HATS
 Q0771 CLEAN LEATHER GLOVES
 Q0773 CLEAN RUBBER APRONS
 Q0774 CLEAN RUBBER GLOVES
 Q0775 CLEAN SAFETY TOE SHOES
 Q0776 CLEAN PROTECTIVE CLOTHING
 Q0782 INSPECT COVERALLS FOR CONDITION AND CLEANLINESS
 Q0783 INSPECT EAR PROTECTORS FOR CONDITION AND CLEANLINESS
 Q0785 INSPECT FACE SHIELDS FOR CONDITION AND CLEANLINESS
 Q0786 INSPECT GOGGLES FOR CONDITION AND CLEANLINESS
 Q0787 INSPECT HARD HATS FOR CONDITION AND CLEANLINESS
 Q0788 INSPECT HARNESS CONDITIONS
 Q0792 INSPECT LEATHER GLOVES FOR CONDITION AND CLEANLINESS
 Q0793 INSPECT PAINTING GLOVES FOR CONDITION
 Q0796 INSPECT RUBBER APRONS FOR CONDITION AND CLEANLINESS
 Q0797 INSPECT RUBBER GLOVES FOR CONDITION AND CLEANLINESS
 Q0798 INSPECT SAFETY TOE SHOES FOR CONDITION AND CLEANLINESS
 Q0799 INSPECT SURGICAL GLOVES FOR CONDITION
 Q0802 REPAIR EAR PROTECTORS
 Q0803 REPAIR FACE SHIELDS
 Q0804 REPAIR GOGGLES
 Q0805 REPAIR HARD HATS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
 USE COMMON HANDTOOLS
 APPLY SOLVENTS
 APPLY SANITIZER

KNOWLEDGE

INTERPRET TECHNICAL DATA
 LOCATE TECHNICAL DATA
 RECALL SHOP SAFETY PRECAUTIONS
 RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
 SELECT COMMON HANDTOOLS
 SELECT SOLVENTS

TASK #: 01120

PERFORM OPERATOR MAINTENANCE ON EMERGENCY EYE WASHERS OR SHOWERS

EQUIPMENT:

COMMON HANDTOOLS

SANITIZER (SELF CONTAINED UNITS)

SAFETY EQUIPMENT

REFERENCES:

EQUIPMENT OPERATORS MANUAL/T.O.

AFOSH STDS

CONDITIONS CUES:

CONDITION: HANGER OR IN SHOP

STANDARDS:

IAW EQUIPMENT OPERATORS MANUAL/T.O.

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	M0644	3.90	47	48	53	59	4.27	12
427X1	Q0777	2.53	15	20	22	17	3.03	7
427X1	Q0784	3.55	25	30	34	50	3.39	12
427X1	Q0790	3.35	23	24	28	41	3.67	7
427X1	Q0794	2.69	13	17	20	25	3.44	7

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

M0644 INSPECT SAFETY EQUIPMENT
Q0777 FILL PORTABLE EMERGENCY EYEWASHERS
Q0784 INSPECT EMERGENCY SHOWERS
Q0790 INSPECT INSTALLED EMERGENCY EYEWASHERS
Q0794 INSPECT PORTABLE EMERGENCY EYEWASHERS
CLEAN EQUIPMENT
ENSURE PROPER WATER PRESSURE IS PRESENT
PERFORM OPERATIONAL CHECK AS NEEDED
SANITIZE PORTABLE SELF CONTAINED UNITS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE EMERGENCY EYE WASH/SHOWERS

KNOWLEDGE

INTERPRET TECHNICAL DATA

LOCATE TECHNICAL DATA

RECALL SHOP SAFETY PRECAUTIONS

RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING

RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF PLASTICS

INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)

TASK #: 01130
REPAIR SEALANTS

EQUIPMENT:

COMMON HANDTOOLS
SEALANT REMOVAL TOOLS
MEASURING INSTRUMENTS
MASKING MATERIALS
SAFETY EQUIPMENT
SEALANT
SOLVENT
RAGS

REFERENCES:

T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
T.O. 1-1-2 (CORROSION PREVENTION AND CONTROL FOR AEROSPACE EQUIPMENT)
APPLICABLE AIRCRAFT -3 AND -23 T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE, HANGER, OR IN SHOP

STANDARDS:

IAW T.O.

OSR SOURCE:

AFSC	JOB INV	TNG EMP	1ST JOB	1ST ENL	5 LVL	7 LVL	TSK DIF	ATI
427X1	G0243	4.06	36	39	37	25	3.88	12
427X1	G0301	2.14	23	24	22	15	3.57	7
427X1	R0812	1.29	1	1	1	2	4.10	2
427X1	R0813	1.41	1	0	1	2	4.15	2
427X1	R0815	1.39	1	1	1	3	4.60	2
427X1	R0818	1.06	2	2	3	1	4.49	2
427X1	R0819	2.45	22	24	25	17	4.74	7
427X1	R0821	1.27	2	2	2	2	4.91	2
427X1	R0822	1.69	5	7	8	12	4.80	2
427X1	R0823	2.45	7	9	12	14	4.68	7
427X1	R0824	2.29	7	10	11	14	4.64	7
427X1	R0825	1.96	9	9	10	10	4.87	2
427X1	R0826	2.12	10	11	13	10	4.68	7
427X1	R0827	1.57	1	1	2	2	5.04	2

ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

R0825 REMOVE OLD SEALANT
CLEAN AND PREPARE SURFACE
MASK AREA AS NEEDED
PREPARE SEALANT COMPOUNDS
APPLY NEW SEALANT
REMOVE MASKING MATERIALS

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE STANDARD MEASURING INSTRUMENTS
OPERATE WEIGHT MEASURING SCALES
APPLY MASKING MATERIALS
APPLY SOLVENTS
APPLY SEALANTS

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL SHOP SAFETY PRECAUTIONS
RECALL FLIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF PLASTICS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF COMPOSITE
MATERIALS
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED
STRUCTURES
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS
MATERIALS
SELECT COMMON HANDTOOLS
SELECT WEIGHT MEASURING SCALES
RECALL CHEMICAL COMPOUND MIXING TECHNIQUES
SELECT SOLVENTS
SELECT SEALANTS
PERFORM BASIC MATHEMATICS (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT MASKING MATERIALS

RELATED TASKS

G0243 ATTACH RESTRAINT OR SAFETY HARNESSSES
G0301 REMOVE RESTRAINT OR SAFETY HARNESSSES
R0812 APPLY FASTENER SEALS
R0813 APPLY FILLET SEALS
R0815 APPLY PERMANENT FAYING SURFACE SEALS
R0818 APPLY RUBBER SEALS
R0819 APPLY TOP COATING TO SEALED AREAS
R0821 INJECT SEALANTS
R0822 INSPECT FOR DEFECTIVE SEALS
R0823 INSPECT FOR DETERIORATED SEALANTS
R0824 INSPECT FOR MISSING SEALANTS
R0826 PREPARE SURFACES FOR SEALANT APPLICATION
R0827 WEIGH SEALANT AND EXCELLERATOR PARTS FOR MIXING