DISTRIBUTION OF TASK ANALYSIS
FOR AFSC 458X2

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STATEMENT "A" per Viola Hebert
USAFOMC/OMT, Randolph AFB, TX
TELECON 2/12/90

TRAINING DEVELOPMENT SERVICES DIVISION
PREPARED BY

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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.

CMSgt Gerald Carr, Sheppard AFB, TX
TSgt Boyd Engleman, Sheppard AFB, TX
TSgt Scott Ferrie, Hurlburt Field, FL
TSgt Venus Johnson, Chanute AFB, IL
TSgt Samuel Morse, Dyess AFB, TX
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TSgt David Wilson, Sheppard AFB, TX
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SSgt Eddie Mullins, Eglin AFB, FL
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SSgt Patricia Schneider, Eglin AFB, FL
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Sgt Tami Fowler, Eglin AFB, FL
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AIC Donald Frost, Shaw AFB, SC
AIC Patrick Kromel, Charleston AFB, SC
AIC Charles Moon, Dyess AFB, TX
AIC Gary Trayer, Dover AFB, DE
AIC Ralph Trice, Dover AFB, DE
AIC Zachary Zinter, Dyess AFB, TX
Amn Thomas Sylvester, Dover AFB, DE
Mr Thomas Corbeil, Dover AFB, DE
Mr Ronnie East, Charleston AFB, SC
Mr William Francis, Sheppard AFB, TX
Mr Richard Giles, Tinker AFB, OK
Mr George Gloyd, Dyess AFB, TX
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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Commander
USAF Occupational Measurement Center

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Chief, Training Development
Services Division
USAF Occupational Measurement Center
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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 specialty 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.

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 specialities (Airframe and Corrosion Control) as well as unique skill and knowledge requirements for each specialty.
TASK ANALYSIS PROCEDURES
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 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 that 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
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

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<td>Use Standard Measuring Instruments</td>
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<td>Apply Solvents</td>
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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

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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 OF METAL BONDED STRUCTURES
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS
MATERIALS
SELECT COMMON HANDBOOLS
SELECT SPECIAL TOOLS
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT PNEUMATIC HANDBOOLS
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

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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)
GO192 INSPECT INSTALLED RIVETS FOR STRUCTURAL DEFORMITIES

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDTOOLS
USE RIVET SQUEEZER
USE MICROSHAPER
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:

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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 HANDBOOLS
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 HAND TOOLS
SELECT SPECIAL TOOLS
SELECT PNEUMATIC HAND TOOLS
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-IA-8 (STRUCTURAL HARDWARE)
T.O. 1B-52G-3 (STRUCTURAL REPAIR INSTRUCTIONS)
APPLICABLE AIRCRAFT STRUCTURES T.O.

CONDITION CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

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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

- 25 -
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.

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CONDITION: FLIGHTLINE OR IN SHOP

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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 UNTIGHTEN 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-IA-8 (STRUCTURAL HARDWARE)

CONDITION CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

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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

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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

- 32 -
- 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 HANDBOOLS
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.

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STANDARDS:

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ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

F0159 REMOVAL PULL-TYPE LOCK BOLTS
- SELECT METHOD FOR SPECIFIC APPLICATION

F0155 REMOVAL 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)

P0137
- 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:

I.A.W TECHNICAL DATA FOR SPECIFIC APPLICATION

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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

- 38 -
- 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 HANDBOOLS
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 HANDBOOLS
SELECT PNEUMATIC HANDBOOLS
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 (FRICITION LOCK) BLIND RIVETS
F0139 INSTALL SELF-PLUGGING (MECHANICAL LOCK) BLIND RIVETS
F0144 PRECISION REAM HOLES
F0160 REMOVE SELF-PLUGGING (FRICITION 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)
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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-loc 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.
- Insert taper-loc for seating

Skills

- Use nasonal protective equipment
- Use common handtools
- Use taper-loc 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

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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

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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 SHIP 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. I-IA-8 (STRUCTURAL HARDWARE)

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

I A W TECHNICAL DATA FOR SPECIFIC APPLICATION

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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 HOLESS
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

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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:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

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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

- 54 -
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:

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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

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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 HANDBOOLS
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 HANDBOOLS
SELECT SPECIAL FASTENERS
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
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

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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 TOOLS
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 I/VET 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

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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

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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 LOOSENED
- 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 loosened)
- 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

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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 UNT THREAD 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

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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 MICROSHERAVER (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
MICROSHAPER
VACUUM CLEANER

REFERENCES:

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

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

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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 MICROSHAPER (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 (FO131)

EQUIPMENT:

COMMON HANDBOOLS
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

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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:

I.A.W TECHNICAL DATA FOR SPECIFIC APPLICATION

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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

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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 HANDBOOLS
USE TURRET PUNCH
USE HOLE SAW
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 HANDBOOLS
SELECT SPECIAL TOOLS
SELECT PNEUMATIC HANDBOOLS
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

G0199

INTERPRET DRAWINGS AND BLUEPRINTS
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
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### 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 CLEANERS
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
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:

I.A.W TECHNICAL DATA FOR SPECIFIC APPLICATION

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**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 PNEUMATICAWS
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 FIGHTLINE SAFETY PRECAUTIONS
RECALL CHEMICAL SAFETY PRECAUTIONS
RECALL TYPES/USES OF PROTECTIVE EQUIPMENT/CLOTHING
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 MATHEMATICAL (ADD, SUBTRACT, MULTIPLY, DIVIDE)
INTERPRET MEASURING SYSTEMS (STANDARD, METRIC)
SELECT MASKING MATERIALS
SELECT PROTECTIVE COATINGS

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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:

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ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

- 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

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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 A/P 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

- 89 -
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:

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ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSTALL SELECTED ATTACHMENTS ONTO MACHINE
ADJUST MACHINE FOR CORRECT VOLTAGE, AMPERAGE, AND PRESSURE
TEST WELD ON IDENTICAL SCRAP MATERIAL
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

- 90 -
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 HANDBOOLS
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

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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 HANDBOOLS
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:

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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
SWAGE CABLE TERMINALS USING PNEUMATIC CABLE SWAGER
SLIP TERMINAL OVER END OF CABLE CONSTRUCTION MATERIAL
PLACE TERMINAL BETWEEN SWAGING 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

SELECT CABLE CONSTRUCTION MATERIAL

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 HANDBOOLS
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

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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 HANDBOOLS
USE INSPECTION MIRROR
USE MICROMETER

KNOWLEDGE

INTERPRET TECHNICAL DATA
LOCATE TECHNICAL DATA
RECALL FLIGHTLINE SAFETY PRECAUTIONS
SELECT COMMON HANDBOOLS
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:

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ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

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

-- 98 --
INSPECT BENDS
L0320 DEBUR 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

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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 HANDBOOLS
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 HANDBOOLS
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 HANDBOOLS
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

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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
INTERPRET SPECIFICATIONS FOR AIRCRAFT TUBING ASSEMBLIES
SELECT TUBING
SELECT TUBING HARDWARE
RECOGNIZE CAPABILITIES/APPLICATIONS OF TUBE CUTTERS
INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

L0325 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

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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 COUPLING 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

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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

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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

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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 HANDBOOLS
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 HANDBOOLS
SELECT PNEUMATIC HANDBOOLS
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

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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 HANDDOOLS
SELECT PNEUMATIC HANDDOOLS
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

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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 WEIGH 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

NO346  APPLY PERMANENT FAYING SURFACE SEALS
NO348  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)

CONDITION CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

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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 HANDBOOLS
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 HANDBOOLS
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

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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 HANDBOOLS
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 HANDBOOLS
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

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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

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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 HANDBOOLS
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 HANDBOOLS
SELECT SPECIAL TOOLS
SELECT PNEUMATIC HANDBOOLS
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
INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

K0495 ROTARY PEEN STRESSED SURFACES

G0199
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:

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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 CAGES OR METERS

G0199 INTERPRET DRAWINGS AND BLUEPRINTS

RELATED TASKS

K0499 SHOT PEEEN 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

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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 HANDBOOLS
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 HANDBOOLS
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

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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

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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 MICOMETER
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

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ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

CLEAN PART

J0292 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

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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 PLASTICS 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 HANDBANDS
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 HANDBANDS
SELECT PNEUMATIC HANDBANDS
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

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ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

LOCATE DAMAGE ON AIRCRAFT
OBTAIN SYSTEM 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 ADVANCED COMPOSITES

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-HDBK 337 (ADHESIVE BONDED AEROSPACE STRUCTURE REPAIR)

CONDITIONS CUES:
- CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:
- IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

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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

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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 REPAIRD OR DAMAGED AREA USING HAMMER TAP OR COIN TAP METHOD
H0234  INSPECT AND RIFY FIBERGLASS HONEYCOMB CORE DAMAGE
H0235  INSPECT AND RIFY 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
INPECT 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

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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

- 140 -
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

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- 141 -
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 PAYING SURFACES
LAY DOWN PARTING BARRIER ON PAYING 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 CUR
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

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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

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 SAW ToolS
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 SAW S
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:

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**ACTIVITIES SKILL KNOWLEDGE:**

**ACTIVITIES**

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

- 148 -
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 SAW
TEMPLATES
MASKING MATERIALS
VACUUM CLEANER

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

CONDITION CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:
IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

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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 SAW
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

- 152 -
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF HONEYCOMB CORE MATERIALS
SELECT COMPOSITE TOOLING
G0199 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

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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

- 154 -
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

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ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

ABRIDE 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 HANDBOOLS
PERSONAL PROTECTIVE EQUIPMENT/CLOTHING
CORE CUTTERS
PNEUMATIC SANDER
ABRASIVE PAPER
HOT BOND CURING EQUIPMENT
FROTOMETER
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

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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
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RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF METAL BONDED STRUCTURES
RECALL TYPES, PROPERTIES, AND CHARACTERISTICS OF FIBERGLASS MATERIALS
SELECT COMMON HANDBOOLS
SELECT SPECIAL TOOLS
SELECT PNEUMATIC HANDBOOLS
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
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)

CONDITION CUES:

CONDITION: IN SHOP
CONDITION: ENVIRONMENTALLY CONTROLLED AREA REQUIRED

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

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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 BREATHER/BLEEDER MATERIALS
INSPECT AREA

SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE CC MON HANDBOOLS
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 HANDBOOLS
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

- 162 -
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
I1.6C 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

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ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INPECT AREA TO DETERMINE EXTENT OF DAMAGE
DRILL A MINIMUM OF TWO HOLES

HO242 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 HANDBOOLS
SELECT SPECIAL TOOLS
SELECT PNEUMATIC HANDBOOLS
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
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 HANDBOOLS
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

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ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT AND EVALUATE DAMAGED AREA
10264 WEAR PROTECTIVE CLOTHING DURING COMPOSITE DAMAGE REPAIR
G0248 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
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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
?ective COATING
VACUUM CLEANER

REFERENCES:

APPLICABLE AIRCRAFT STRUCTURES T.O.

CONDITIONS CUES:

CONDITION: FLIGHTLINE OR IN SHOP

STANDARDS:

IAW TECHNICAL DATA FOR SPECIFIC APPLICATION

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PECTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

INSPECT AND EVALUATE DAMAGED AREA
WEAR PROTECTIVE CLOTHING DURING COMPOSITE DAMAGE REPAIR
ABRACE 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

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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, TEFLOW 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

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ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

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 HANDBOOLS
USE STANDARD MEASURING INSTRUMENTS
USE PH TEST EQUIPMENT
APPLY MASKING MATERIALS
USE VACUUM CLEANERS
APPLY NEUTRALIZING AGENTS

10353 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

ACTIVITIES:

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)

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- 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

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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 HANDBOOLS
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

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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
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

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ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

DON SAFETY EQUIPMENT
DETERMINE TYPE AND AMOUNT OF CHEMICALS
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)

CONDITION CUES:
CONDITION: FLIGHTLINE, HANGER, OR IN SHOP

STANDARDS:
IAW T.O. 1-1-8

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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

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:

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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

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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.
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**ACTIVITIES SKILL KNOWLEDGE:**

**ACTIVITIES**

- **A0018** COORDINATE WASH RACK ACTIVITIES
- **I0350** INSPECT AIRCRAFT FOR SAFETY PROCEDURE COMPLIANCE PRIOR TO WASHING
- **I0354** PERFORM SAFETY SET UP OF AIRCRAFT PRIOR TO WASHING
- **G0244** ATTACH STATIC GROUNDS
- **I0355** PREPARE AIRCRAFT CLEANING SOLUTIONS FOR APPLICATION
- **I0357** SET UP AIRCRAFT WASHING EQUIPMENT
- **G0243** ATTACH RESTRAINT OR SAFETY HARNESSES (AS NEEDED)
- **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
- **I0366** WASH DOWN AIRCRAFT WASHING AREAS
- **I0348** DISASSEMBLE AIRCRAFT WASHING EQUIPMENT
- **G0301** REMOVE RESTRAINT OR SAFETY HARNESSES
- **G0302** REMOVE STATIC GROUNDS
SKILLS

USE PERSONAL PROTECTIVE EQUIPMENT
USE COMMON HANDBOOLS
USE STANDARD MEASURING INSTRUMENTS
APPLY MASKING MATERIALS
APPLY SOLVENTS
USE VACUUM CLEANERS
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
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 HANDBOOLS
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

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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 FIT 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 REGULATORS

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KNOWLEDGE

- Interpret technical data
- Locate technical data
- Select metal thickness from T.O. and A/C forms
- Recall SH&C safety precautions
- Recall flightline safety precautions
- 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 harnesses
- G0301 Remove restraint or safety harnesses
- 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 woods
- 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 #: 00780
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
### Activities Skill Knowledge:

**Activities**

Ensure material to be treated and removing compound are compatible.

**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.

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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
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 HARNESSES
G0286 PREPARE CORROSION CONTROL MATERIALS PRIOR TO JOB PERFORMANCE
G0301 REMOVE RESTRAINT OR SAFETY HARNESSES
10358 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
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**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**
- **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 HARNESS
G0244 ATTACH STATIC GROUNDS
G0298 REMOVE PAINT OVERRSPRAY FROM LANDING GEAR STRUTS
G0299 REMOVE PAINT OVERRSPRAY FROM PLASTIC SURFACES
G0301 REMOVE RESTRAINT OR SAFETY HARNESS
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
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**ACTIVITIES SKILL KNOWLEDGE:**

**ACTIVITIES**

- Mask area to be stripped
- Ensure structural material and removal compound are compatible
- 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 HANDBOOLS
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 HARNESSES
G0298 REMOVE PAINT OVERSPRAY FROM LANDING GEAR STRUTS
G0299 REMOVE PAINT OVERSPRAY FROM PLASTIC SURFACES
G0301 REMOVE RESTRAINT OR SAFETY HARNESSES
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:

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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

- 208 -
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 HARNESSES
G0301 REMOVE RESTRAINT OR SAFETY HARNESSES
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
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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/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 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 HARNESSES
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 HARNESSES
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

- 213 -
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
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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 (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 HANDBLOCKS
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

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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 HANDBOOLS
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 HANDBOOLS
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

CONDITION CUES:
CONDITION: FLIGHTLINE, HANGER, OR IN SHOP

STANDARDS:
ALLIED TO CORRECT LOCATIONS WITHOUT DAMAGE TO THE DECAL

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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 TAPE

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
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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 HARNESSES
G0244 ATTACH STATIC GROUNDS
G0301 REMOVE RESTRAINT OR SAFETY HARNESSES
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
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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 HANDBOOLS
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
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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 HARNESS
G0244 ATTACH STATIC GROUNDS
G0301 REMOVE RESTRAINT OR SAFETY HARNESS
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
00697 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

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- 230 -
ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

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

OBTAIN COATING NEEDED

MASK AREA

Lay down aircraft barrier paper (if required)

Apply safety equipment

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 CHOCS 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
00696 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
STOPWATCH
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

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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 HANDBOOLS
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 HANDBOOLS
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 HARNESS
G0244 ATTACH STATIC GROUNDS
G0301 REMOVE RESTRAINT OR SAFETY HARNESS
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
00697  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

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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

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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 HARNESSES
G0244 ATTACH STATIC GROUNDS
G0301 REMOVE RESTRAINT OR SAFETY HARNESSES
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 STRIPENABLE 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
MIX PAINTS
PAINT EMERGENCY EQUIPMENT
PREPARE ELASTOMERIC COATINGS FOR APPLICATION
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PREPARE STRIPPABLE COATING COMPOUNDS FOR APPLICATION
PREPARE WASH PRIMERS FOR APPLICATION
STRAIN PAINTS
TINT PAINT COLORS
APPLY PREVENTIVE COATINGS TO MISSILES
APPLY PROTECTIVE COATING TO SEALED AREAS
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

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**ACTIVITIES SKILL KNOWLEDGE:**

**ACTIVITIES**

- Inspect surface for cleanliness and readiness for coatings (Water break test)
- Obtain coating needed

**LO599**
- 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

**LO570**
- 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 HARNESSES
G0244 ATTACH STATIC GROUNDS
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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

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T.O. 1-1-1 (CLEANING OF AEROSPACE EQUIPMENT)
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STANDARDS:
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ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

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

OBTAIN COATING NEEDED

MASK AREA

L0570

LAY DOWN AIRCRAFT BARRIER PAPER

DON SAFETY EQUIPMENT

APPLY COATING TO REQUIRED THICKNESS AND NUMBER OF COATS

M0647

M0662

PICK UP AIRCRAFT BARRIER PAPER

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 HARNESSES
G0244 ATTACH STATIC GROUNDS
G0301 REMOVE RESTRAINT OR SAFETY HARNESSES
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

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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

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ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

LAYOUT AND CUT STENCILS USING HAND METHOD
- SELECT STYLE AND SIZE OF MARKING USING T.O.
- LAYOUT (DRAW) MARKING ON STENCIL BOARD

L0574 - 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.
- Lay out 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, GOOGLES, ETC.)
EMERGENCY EYE WASH/SHRER
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

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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 harnesses
G0301 Remove restraint or safety harnesses
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
00712 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 AIRCR.: FT -23 T.O.

CONDITIONS CUES:

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

STANDARDS:

COATING MEASURED TO PROPER THICKNESS

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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

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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 HANDBOOLS
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 HANDBOOLS
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 HANDBOOLS
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.

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ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES
M0611 CLEAN ABRASIVE GRIT BLAST ROOMS (AGBR)
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 HANDBOOLS
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.

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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 HANDBOOLS

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.

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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.

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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
M06/2 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)

CONDITION CUES:

CONDITION: IN SHOP OR HANGER

STANDARDS:

IAW APPLICABLE EQUIPMENT OPERATORS MANUAL/T.O.

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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
CUP 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.

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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.

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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 FLIGHT/LINE 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.

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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 blowers

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.

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Activities skill knowledge:

Activities

Inspect equipment for operational condition
Check condition of hoses, hopper, gages, trigger, dust collection - Check for cracks, loose connections and fittings, trigger for sticking, dust collection for emptying
- Check for corrosion

M0627 Clean vacuum blowers
Empty hopper
Replenish blasting media
Drain water separator
Clean filters
Apply lubricants
Store hoses

- 275 -
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.

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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 PHI

STANDARDS:

IAW EQUIPMENT OPERATORS MANUAL/T.O.

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ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

MO645 INSPECT STENCIL MACHINES
MO625 CLEAN STENCIL MACHINES
CLEAN DIES
REPLACE BROKEN DIES
MO652 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.

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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.

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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

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#### 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.

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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

- 287 -
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.

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ACTIVITIES SKILL KNOWLEDGE:

ACTIVITIES

REMOVE OLD SEALANT
CLEAN AND PREPARE SURFACE
MASK AREA AS NEEDED
R0825 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 HARNESS
G0301 REMOVE RESTRAINT OR SAFETY HARNESS
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