

AVIATION SUPPORT EQUIPMENT REPAIRER

RAPIDS: 0599D

O*NET/SOC: 49-9041.00

REVISION DATE: 03/2021

TRADE DESCRIPTION: Inspects, maintains, repairs, and modifies aircraft ground equipment, such as motor generator sets, air compressors, and test stands: Conducts periodic and special inspections, using test equipment, to detect malfunctions. Tests and operates equipment for output, leakage, and operation in accordance with technical publications. Disassembles and assembles malfunctioning accessories and components, such as motor and engine driven generator sets, air compressors, hydraulic-pneumatic sets, air-conditioners, heaters, exhaust and cooling equipment, and test stands. Replaces worn bearings, bushings, shafts, end plates, brushes, springs, coils, armatures, pushrods, valves, exhaust manifolds, tubing, hoses, and defective wiring. Repairs, adjusts, and operates gas turbine engines.

TASK PERFORMANCE: Demonstrate knowledge and skills for qualifying as Journeyman. Applicable Job Qualification Requirements will be used as a guide in performing tasks and demonstrating knowledge in the following skill areas. Actual work time must be recorded in the Work Experience Log; each skill area must be completed.

TRADE ELIGIBILITY REQUIREMENTS:

Service Member assigned, trained and working full time in this trade occupation;

Have a minimum of 12 months remaining on active duty when beginning this trade apprenticeship;

Agree to abide by the National Standards of Apprenticeship.

Related Instruction:

Trade related On-The-Job-Training (OJT) or Any Trade related schools/courses totaling 288 or more hours.

Additional Requirement:

None.

Total Hours: **4000**

Skill	Description	Hours
A	REPAIRS, CLEANING & MAINTENANCE	1500

	-- Repair or maintain the operating condition of industrial production or processing machinery or equipment. -- Repair or replace broken or malfunctioning components of machinery or equipment. -- Cut and weld metal to repair broken metal parts, fabricate new parts, or assemble new equipment -- Clean, lubricate, or adjust parts, equipment, or machinery.	
B	DISASSEMBLE & REASSESEMBLE -- Disassemble machinery or equipment to remove parts and make repairs. -- Reassemble equipment after completion of inspections, testing, or repairs.	1000
C	DOCUMENTATION -- Record parts or materials used and order or requisition new parts or materials as necessary. -- Record repairs and maintenance performed.	500
D	INSPECTION -- Examine parts for defects, such as breakage or excessive wear. -- Observe and test the operation of machinery or equipment to diagnose malfunctions, using voltmeters or other testing devices.	250
E	EQUIPMENT USAGE -- Demonstrate equipment functions and features to machine operators. -- Operate newly repaired machinery or equipment to verify the adequacy of repairs. -- Enter codes and instructions to program computer-controlled machinery.	500
F	TROUBLESHOOTING -- Study blueprints or manufacturers' manuals to determine correct installation or operation of machinery. -- Analyze test results, machine error messages, or information obtained from operators to diagnose equipment problems.	250