Assembles, installs, and tests aircraft plumbing and hydraulic systems and components. Repairs control surface components, landing gears, and fuel, oil, oxygen, and water systems. Conducts pressure, leak, and functional tests of installed systems. 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 areas. Actual work time must be recorded in the Work Experience Log.

**Applicable Ratings/MOS**

**USMC** 6062, 6072, 6154, 6156, 6243, 6246, 6252, 6253, 6256, 6257, 6258

**USCG** AMT

**USN** AM, AWF

**USA** 15H, 15R, 15S, 15T

**Related Instruction**

Any trade related schools/courses totaling 576 hours

**Additional Requirement**

None

---

**Skill** | **Description** | **Hours**
--- | --- | ---
**A** | GENERAL ADMINISTRATION | 500

**B** | TECHNICAL ADMINISTRATION | 200

**C** | SAFETY | 250
- Conform to prescribed safety practices.

**D** | LOGISTICS | 250
- Order supplies and equipment. Inventory material and equipment.

**E** | AVIATION SUPPORT OPERATIONS | 800
- Operate support equipment. Prepare aircraft for ground maintenance. Service aircraft on the flight line.
### MECHANICAL MAINTENANCE


### HYDRAULIC/PNEUMATIC MAINTENANCE


### FABRICATION AND MANUFACTURING

Fabricate and fit tubing and flexible hose assemblies.

### TEST EQUIPMENT

Operate general purpose test equipment. Maintain test equipment. Conducts pressure, leak, and functional tests of installed systems, using test equipment.

### CORROSION CONTROL AND MATERIAL PRESERVATION

Detect and treat corrosion. Analyze extent of corrosion damage. Monitor corrosion control program.

### SURVIVAL EQUIPMENT MAINTENANCE

Remove, service, and install emergency air bottles.

### QUALITY ASSURANCE

Comply with Foreign Object Damage (FOD) program. Comply with tool control program. Perform maintenance requirement inspections. Obtain hydraulic samples. Inspect the installation, alteration, and repair of equipment. Inspect and test power system, actuating system, and landing gear system components. Conduct quality assurance inspections.
<table>
<thead>
<tr>
<th>ASSEMBLY AND INSTALLATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assemble and install plumbing and hydraulic systems and components in aircraft, following blueprints and production illustrations, using hand and power tools and test equipment. Assemble and install parts and assemblies, using hand tools and power tools. Lay out location of parts and assemblies, such as surface control boosters, landing gears, vacuum units, and fuel, oil, oxygen, and water systems, according to specifications, using measuring and marking instruments.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>REPAIRS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repair or replace malfunctioning system components. Fabricate parts incidental to assembly and installation, using shop equipment.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ACTUATING STRUCTURES EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assemble and install rigging and control assemblies and systems that actuate aircraft structures such as; rudder, canopy, and wing surfaces, according to specifications using hand and power tools and equipment. Install mechanical linkages and actuators. Assemble, hang, connect, and install rigging and control assemblies and systems, including cables, cylinders, components of ailerons and flaps, pulleys, mountings, and brackets, working from established station lines and index points using templates, jigs, fixtures, hand and power tools.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ALIGNMENTS AND ADJUSTMENTS</th>
</tr>
</thead>
</table>