

## CONSTRUCTION EQUIPMENT MECHANIC

RAPIDS: 0336D

O\*NET/SOC: 49-3042.00

REVISION DATE: 09/2019

**TRADE DESCRIPTION:** Diagnose, adjust, repair, or overhaul mobile mechanical, hydraulic, and pneumatic equipment, such as cranes, bulldozers, graders, and conveyors, used in construction, logging, and surface mining.

**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.

### Applicable Ratings/MOS/NEC

**USMC MOS:** 1341, 2141, 2146, 2147

**USCG:** None

**USN:** CM

**USA MOS:** 12B, 12C, 12P, 881A, 88L, 915A, 915E, 919A, 91A, 91B, 91H, 91L, 91M, 91P, 91S, 91X, 91Z, 92M

### Related Instruction:

Trade related On-The-Job-Training (OJT) or Any Trade related schools/courses totaling 432 or more hours.

### Additional Requirement:

None

Total Hours: **6000**

Skill	Description	Hours
A	SAFETY AND ADMINISTRATION	250

	<ul style="list-style-type: none"> <li>-- Schedule maintenance for industrial machines and equipment, and keep equipment service records.</li> <li>-- Research, order, and maintain parts inventory for services and repairs.</li> </ul>	
<b>B</b>	<p><b>CLEANING</b></p> <ul style="list-style-type: none"> <li>-- Clean, lubricate, and perform other routine maintenance work on equipment and vehicles.</li> <li>-- Clean parts by spraying them with grease solvent or immersing them in tanks of solvent.</li> </ul>	<b>250</b>
<b>C</b>	<p><b>BRAKES, HYDRAULIC, AIR, AIR/HYDRAULIC</b></p> <ul style="list-style-type: none"> <li>-- Fit bearings to adjust, repair, or overhaul mobile mechanical, hydraulic, and pneumatic equipment.</li> <li>-- Replace worn, damaged, or defective mechanical parts.</li> </ul>	<b>800</b>
<b>D</b>	<p><b>DISASSEMBLE AND REASSEMBLE EQUIPMENT</b></p> <ul style="list-style-type: none"> <li>-- Direct workers who are assembling or disassembling equipment or cleaning parts.</li> <li>-- Dismantle and reassemble heavy equipment using hoists and hand tools.</li> </ul>	<b>800</b>
<b>E</b>	<p><b>BLUEPRINTS</b></p> <ul style="list-style-type: none"> <li>-- Read and understand operating manuals, blueprints, and technical drawings.</li> </ul>	<b>300</b>
<b>F</b>	<p><b>USE OF SHOP EQUIPMENT</b></p> <ul style="list-style-type: none"> <li>-- Weld or solder broken parts and structural members, using electric or gas welders and soldering tools.</li> <li>-- Fabricate needed parts or items from sheet metal.</li> </ul>	<b>800</b>
<b>G</b>	<p><b>SPECIAL TOOLS AND MACHINES</b></p> <ul style="list-style-type: none"> <li>-- Operate and inspect machines or heavy equipment to diagnose defects.</li> <li>-- Adjust, maintain, and repair or replace subassemblies, such as transmissions and crawler heads, using hand tools, jacks, and cranes.</li> <li>-- Adjust and maintain industrial machinery, using control and regulating devices.</li> </ul>	<b>500</b>
<b>H</b>	<p><b>MAINTENANCE AND REPAIR</b></p> <ul style="list-style-type: none"> <li>-- Repair and replace damaged or worn parts.</li> <li>-- Examine parts for damage or excessive wear, using micrometers and gauges.</li> <li>-- Assemble gear systems, and align frames and gears.</li> </ul>	<b>1000</b>
<b>I</b>	<p><b>ELECTRICAL SYSTEM</b></p>	<b>500</b>

	-- Repair, rewire, and troubleshoot electrical systems.	
<b>J</b>	<b>TEST EQUIPMENT</b>  -- Test mechanical products and equipment after repair or assembly to ensure proper performance and compliance with manufacturers' specifications.  -- Overhaul and test machines or equipment to ensure operating efficiency.  -- Diagnose faults or malfunctions to determine required repairs, using engine diagnostic equipment such as computerized test equipment and calibration devices.	<b>800</b>