

Work Processes Schedule

PUMP REPAIRER (ANY INDUSTRY)

RAPIDS: 0933N

O*NET/SOC: 49-9041.00

REVISION DATE: 12/2014

Repair pumps and pump power units, such as centrifugal and plunger-type pumps, and engine and electric-motor power units. Diagnoses trouble in pumps. Dismantles pumps and repairs or replaces defective parts. 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 MOS None

USCG DC, MK

USN DC, EN, HT, MM, MMA, MMN, MR

Related Instruction

Any trade related schools/courses totaling 432 hours.

Additional Requirement

None

Total Hours: **6000**

Skill	Description	Hours
A	<p>FUNDAMENTALS</p> <p>(Demonstration of knowledge required in all areas.)</p> <ol style="list-style-type: none"> 1. Safety Precautions Fundamentals 2. First Aid And Rescue 3. Quality Assurance Administration Fundamentals 4. Quality Assurance Program Fundamentals 5. Levels Of Control Fundamentals 6. Hearing Conservation Program Fundamentals 7. Hazardous Material Control And Management-(HMC&M) Program Fundamentals 8. Respiratory Protection Program Fundamentals 9. Sight Conservation Program Fundamentals 10. General Administration (Log, Record And File Maintenance) 11. Technical Administration (Publications And Technical Manuals) 12. Logistics 13. Shop Fundamentals <ul style="list-style-type: none"> - Mechanical Fundamentals - Mechanical Seal Fundamentals 	500
B	<p>EQUIPMENT</p> <p>Demonstrate safe operation and upkeep of shop equipment. The Equipment list is representative of tools and machinery typically found in the Work-Center associated with this trade.</p> <ol style="list-style-type: none"> 1. Alignment Systems 2. Sandblaster 3. Floor Crane 4. Drilling Machine 5. Precision Measuring Tools 6. Grinding Machine 7. Bearing Heating Oven 8. Hydrostatic Test Pump 9. Hydraulic Press 10. Bearing Puller 11. Pump Flow Test Stand 12. Hydrostatic Test Stand 13. Parts Washer 	500
C	<p>ALIGN PUMPS TO DRIVERS</p> <p>(Demonstration of knowledge required in all areas.)</p> <ol style="list-style-type: none"> 1. Close-Coupled Pumps 2. Uncoupled Pumps 	250

D	DISASSEMBLE, INSPECT & OVERHAUL ROTARY VANE PUMPS (Demonstration of knowledge required in all areas.) 1. Bilge Pumps 2. Fuel Oil Service Pump 3. Lube Oil Service Pumps	1000
E	DISASSEMBLE, INSPECT & REPAIR CENTRIFUGAL PUMPS (Demonstration of knowledge required in all areas.) 1. Single Stage 2. Multiple Stage	1000
F	DISASSEMBLE, INSPECT & REPAIR GEAR PUMPS (Demonstration of knowledge required in all areas.) 1. Fuel & Lube Oil Service & Supply 2. Fuel & Lube Oil Transfer	1000
G	DISASSEMBLE, INSPECT & REPAIR RECIPROCATING PISTON PUMPS (Demonstration of knowledge required in all areas.) 1. Air Pump (Pneumatic Driver) 2. Bilge Pumps 3. Diaphragm Pump 4. Emergency Boiler Feed Pump 5. Hydro Pumps	1000
H	PROVIDE EQPT FOR HYDROSTATIC TEST SERVICES (NON-NUCLEAR) (Demonstration of knowledge required in all areas.) 1. Maintain & Provide Hydro Pumps 2. Maintain & Provide Relief Valves 3. Test Piping System & Components (Up To 250 Psi) 4. Test Piping System & Components (Up To 3000 Psi) 5. Test Piping System & Components (Up To 10000 Psi)	500
I	SHOP TEST PUMPS - WET RUN & FLOW MEASUREMENT (Demonstration of knowledge required in all areas.) 1. Up To 50 Horse Power 2. Up To 100 Horse Power 3. Up To 200 Horse Power 4. Up To 250 Horse Power	250