

HYDROELECTRIC-MACHINERY MECHANIC

RAPIDS: 0237N

O*NET/SOC: 49-9041.00

REVISION DATE: 09/2019

TRADE DESCRIPTION: Repair, install, adjust, or maintain industrial production and processing machinery or refinery and pipeline distribution systems and hydroelectric generating station.

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: None

USCG: EM, MK

USN: CE, EM, EMN, EN, GSE, GSM, MM, MMA, MMN, UT

USA MOS: None

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	SAFETY AND ADMINISTRATION -- Record parts or materials used and order or requisition new parts or materials as necessary.	200

	<ul style="list-style-type: none"> -- Record repairs and maintenance performed. -- Follow applicable safety regulations and standards. 	
B	CLEANING <ul style="list-style-type: none"> -- Clean, lubricate, or adjust parts, equipment, or machinery. 	300
C	HYDRAULIC SYSTEM TESTING <ul style="list-style-type: none"> -- Operate newly repaired machinery or equipment to verify the adequacy of repairs. 	500
D	DISASSEMBLE AND REASSEMBLE MACHINERY <ul style="list-style-type: none"> -- Disassemble machinery or equipment to remove parts and make repairs. -- Examine parts for defects, such as breakage or excessive wear. -- Reassemble equipment after completion of inspections, testing, or repairs. 	600
E	BLUEPRINTS <ul style="list-style-type: none"> -- Study blueprints or manufacturers' manuals to determine correct installation or operation of machinery. 	300
F	USE OF SHOP EQUIPMENT <ul style="list-style-type: none"> -- Cut and weld metal to repair broken metal parts, fabricate new parts, or assemble new equipment. 	300
G	ELECTRICAL REPAIR <ul style="list-style-type: none"> -- Observe and test the operation of machinery or equipment to diagnose malfunctions, using voltmeters or other testing devices. -- Analyze test results, machine error messages, or information obtained from operators to diagnose equipment problems. 	600
H	MAINTENANCE AND REPAIR <ul style="list-style-type: none"> -- 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. 	800
I	PROGRAM MACHINERY <ul style="list-style-type: none"> -- Enter codes and instructions to program computer-controlled machinery. 	200
J	SUPERVISING OPERATIONS <ul style="list-style-type: none"> -- Demonstrate equipment functions and features to machine operators. 	200