

OPERATING ENGINEER (CONSTRUCTION)

RAPIDS: 0365D

O*NET/SOC: 47-2073.00

REVISION DATE: 10/2019

TRADE DESCRIPTION: Operate one or several types of power construction equipment, such as motor graders, bulldozers, scrapers, compressors, pumps, derricks, shovels, tractors, or front-end loaders to excavate, move, and grade earth, erect structures, or pour concrete or other hard surface pavement. May repair and maintain equipment in addition to other duties.

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: 1345, 1349

USCG: None

USN: EO

USA MOS: 12C, 12G, 12N, 12V, 88H

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	TECHNICAL ADMINISTRATION	500

	<ul style="list-style-type: none"> -- Keep records of material or equipment usage or problems encountered. -- Record operational or environmental data. 	
B	<p>GENERAL ADMINISTRATION</p> <ul style="list-style-type: none"> -- Maintain logs and records. -- Prepare reports. -- Prepare equipment, manpower, and material estimates from drawings and specifications. -- Talk to clients and study instructions, plans, or diagrams to establish work requirements 	300
C	<p>SAFETY</p> <ul style="list-style-type: none"> -- Learn and follow safety regulations. -- Take actions to avoid potential hazards or obstructions, such as utility lines, other equipment, other workers, or falling objects. -- Monitor operations to ensure that health and safety standards are met. -- Test atmosphere for adequate oxygen or explosive conditions when working in confined spaces. 	200
D	<p>HEAVY EQUIPMENT OPERATION</p> <ul style="list-style-type: none"> -- Adjust hand-wheels and depress pedals to control attachments, such as blades, buckets, scrapers, or swing booms. -- Start engines, move throttles, switches, or levers, or depress pedals to operate machines, such as bulldozers, trench excavators, road graders, or backhoes. -- Coordinate machine actions with other activities, positioning or moving loads in response to hand or audio signals from crew members. -- Load and move dirt, rocks, equipment, or other materials, using trucks, crawler tractors, power cranes, shovels, graders, or related equipment. -- Drive and maneuver equipment equipped with blades in successive passes over working areas to remove topsoil, vegetation, or rocks or to distribute and level earth or terrain. -- Signal operators to guide movement of tractor-drawn machines. -- Repair and maintain equipment, making emergency adjustments or assisting with major repairs as necessary. -- Operate loaders to pull out stumps, rip asphalt or concrete, rough-grade properties, bury refuse, or perform general cleanup. -- Push other equipment when extra traction or assistance is required. 	3000

	-- Drive tractor-trailer trucks to move equipment from site to site.	
E	<p>CONSTRUCTION OPERATIONS</p> <ul style="list-style-type: none"> -- Locate underground services, such as pipes or wires, prior to beginning work. -- Check fuel supplies at sites to ensure adequate availability. -- Align machines, cutterheads, or depth gauge markers with reference stakes and guidelines or ground or position equipment, following hand signals of other workers. -- Operate tractors or bulldozers to perform such tasks as clearing land, mixing sludge, trimming backfills, or building roadways or parking lots. -- Connect hydraulic hoses, belts, mechanical linkages, or power takeoff shafts to tractors. -- Operate equipment to demolish or remove debris or to remove snow from streets, roads, or parking lots. -- Select and fasten bulldozer blades or other attachments to tractors, using hitches. -- Assist skilled construction or extraction personnel. 	2000