

Work Processes Schedule

OPERATING ENGINEER (CONSTRUCTION)

RAPIDS: 0365N

O*NET/SOC: 47-2073.00

REVISION DATE: 12/2014

Operate multiple types of power construction equipment, such as compressors, pumps, hoists, derricks, cranes, shovels, tractors, scrapers, or motor graders 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.

Applicable Ratings/MOS

USMC MOS 1310, 1345, 1349

USCG None

USN EO

Related Instruction

Any trade related schools/courses totaling 576 hours.

Additional Requirement

None

Total Hours: **8000**

Skill	Description	Hours
A	<p>TECHNICAL ADMINISTRATION</p> <p>Use drawings and blueprints. Read and work from construction drawings and specifications. Prepare as-built drawings. Draw simple shop drawings and sketches. Interpret grade stake markings. Perform conversion of standard U.S. Weights and Measures to the metric system. Compute volume of geometric solids and embankment sections. Perform tool kit inventory.</p>	500
B	<p>GENERAL ADMINISTRATION</p> <p>Maintain logs and records. Prepare reports. Prepare equipment, manpower, and material estimates from drawings and specifications.</p>	300
C	<p>SAFETY</p> <p>Conform to prescribed safety procedures.</p>	200
D	<p>HEAVY EQUIPMENT OPERATION</p> <p>Remove, repair and mount tires. Use and maintain wire rope. Use slings, spreaders, pallets, cargo nets, and hooks. Change attachments and adapt hydraulic assemblies on tractors (wheeled and crawler) with front and rear mounted and towed attachments. Compute optimum working distance for bulldozer, crawler mounted. Compute safe working load (SWL) of fiber/synthetic lines, wire rope and block and tackle arrangements. Operate and perform operator's maintenance and pre-start checks on motorized and wheel tractor drawn scrapers; motor graders; self-propelled compaction equipment; tractors (wheeled and crawler) with front and rear mounted and towed attachments; front-end loaders (wheeled and crawler); warehouse and rough terrain fork-lifts up to and including 5,000 pounds capacity; and ditcher (trenching machine).</p>	4000

CONSTRUCTION OPERATIONS

E

Check grade with hand level and leveling rod and transfer elevations using a rod engineers level. Serve as a member of an assault surface maintenance crew. Operate and perform operators maintenance and pre-start checks on: Asphalt paver and distributor, self-propelled soil, stabilization mixer, and transit mixer. Operate and perform operators maintenance and pre-start checks and adjustment on the following: Air compressors, crawler mounted rock drill, portable rotary rock drill, power earth augers, pile drivers (diesel and pneumatic), and pumps. Operate and perform operator's maintenance and pre-start check, change attachments, and adapt cable/hydraulic assemblies on the following: Crawler crane, truck or wheel mounted cranes, multi-purpose excavator. Operate and perform operators maintenance on the following: Asphalt continuous flow plant and batch plant, concrete hatch plant and slip form paver, rock crushing, screening, and washing plants. Operate well drilling equipment. Operate quarry equipment.

3000