

Operating Engineers and Other Construction Equipment Operators

Purpose

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.

Education and Experience

High school diploma or equivalent
Moderate-term on-the-job training

FLSA Classification

Non-Exempt

Travel

You will be expected to travel from job site to job site based on need of position. Overnight stay is very common.

Position Type and Expected Hours of Work

Full Time Position with 40 hours a week. Often overtime is required and work often will commence on weekends.

Knowledge

Building and Construction

- Knowledge of materials, methods, and the tools involved in the construction or repair of structures, highways and roads.

Mechanical

- Knowledge of machines and tools, including their designs, uses, repair, and maintenance.

Skills

Basic Skills

Active Learning Understanding the implications of new information for both current and future problem-solving and decision-making.

Active Listening Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.

Critical Thinking Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.

Learning Strategies Selecting and using training/instructional methods and procedures appropriate for the situation when learning or teaching new things.

Mathematics Using mathematics to solve problems.

Monitoring Monitoring/Assessing performance of yourself, other individuals, or organizations to make improvements or take corrective action.

Reading Comprehension Understanding written sentences and paragraphs in work related documents.

Science Using scientific rules and methods to solve problems.

Speaking Talking to others to convey information effectively.

Writing Communicating effectively in writing as appropriate for the needs of the audience.

Social Skills

Coordination Adjusting actions in relation to others' actions.

Instructing Teaching others how to do something.

Negotiation Bringing others together and trying to reconcile differences.

Persuasion Persuading others to change their minds or behavior.

Service Orientation Actively looking for ways to help people.

Social Perceptiveness Being aware of others' reactions and understanding why they react as they do.

Complex Problem Solving Skills

Complex Problem Solving Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.

Technical Skills

Equipment Maintenance Performing routine maintenance on equipment and determining when and what kind of maintenance is needed.

Equipment Selection Determining the kind of tools and equipment needed to do a job.

Installation Installing equipment, machines, wiring, or programs to meet specifications.

Operation Monitoring Watching gauges, dials, or other indicators to make sure a machine is working properly.

Operation and Control Controlling operations of equipment or systems.

Quality Control Analysis Conducting tests and inspections of products, services, or processes to evaluate quality or performance.

Repairing Repairing machines or systems using the needed tools.

Technology Design Generating or adapting equipment and technology to serve user needs.

Troubleshooting Determining causes of operating errors and deciding what to do about it.

Systems Skills

Judgment and Decision Making Considering the relative costs and benefits of potential actions to choose the most appropriate one.

Systems Analysis Determining how a system should work and how changes in conditions, operations, and the environment will affect outcomes.

Systems Evaluation Identifying measures or indicators of system performance and the actions needed to improve or correct performance, relative to the goals of the system.

Resource Management Skills

Management of Material Resources Obtaining and seeing to the appropriate use of equipment, facilities, and materials needed to do certain work.

Management of Personnel Resources Motivating, developing, and directing people as they work, identifying the best

people for the job.

Time Management Managing one's own time and the time of others.

Desktop Computer Skills

Internet Navigating the Internet to find information, including the ability to open and configure standard browsers; use searches, hypertext references, and transfer protocols; and send and retrieve electronic mail (e-mail).

Navigation Using scroll bars, a mouse, and dialog boxes to work within the computer's operating system. Being able to access and switch between applications and files of interest.

Work Context

Body Positioning

Requires repetitive movement

Requires bending or twisting

Requires using hands to handle, control, or feel objects, tools or controls

Requires sitting

Communication

Requires telephone conversations

Requires face-to-face discussions with individuals or teams

Requires contact with others (face-to-face, by telephone, or otherwise)

Competition

Requires competition or awareness of competitive pressures

Environment

Includes exposure to whole body vibration

Includes exposure to contaminants

Requires working in extremely bright or inadequate lighting conditions

Requires working in very hot (above 90 F degrees) or very cold (below 32 F degrees) temperatures

Includes exposure to sounds and noise levels that are distracting or uncomfortable

Impact of Decisions

Requires making decisions that impact the results of co-workers, clients or the company

Requires making decisions that affect other people, the financial resources, and/or the image and reputation of the organization

Opportunity to make decisions without supervision

Mistakes are not easily correctable and have serious consequences

Job Hazards

Requires exposure to hazardous equipment

Level of Challenge

Freedom to determine tasks, priorities, and goals

Requires being exact or highly accurate

Pace and Scheduling

Requires meeting strict deadlines

Job pace is determined by the speed of equipment or machinery

Personal Interaction

Requires coordinating or leading others in accomplishing work activities

Requires work with others in a group or team

Responsibility for Others

Includes responsibility for work outcomes and results

Includes responsibility for the health and safety of others

Work Attire

Requires wearing common protective or safety equipment

Work Setting

Requires working outdoors, exposed to all weather conditions

Job tasks are performed in close physical proximity to other people

Requires working in a closed vehicle or equipment

Requires working in an open vehicle or equipment

Tasks

Learn and follow safety regulations.

Take actions to avoid potential hazards or obstructions, such as utility lines, other equipment, other workers, or falling objects.

Locate underground services, such as pipes or wires, prior to beginning work.

Monitor operations to ensure that health and safety standards are met.

Adjust handwheels 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.

Check fuel supplies at sites to ensure adequate availability.

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.

Keep records of material or equipment usage or problems encountered.

Align machines, cutterheads, or depth gauge makers 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.

Repair and maintain equipment, making emergency adjustments or assisting with major repairs as necessary.

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.

Operate loaders to pull out stumps, rip asphalt or concrete, rough-grade properties, bury refuse, or perform general cleanup.

Select and fasten bulldozer blades or other attachments to tractors, using hitches.

Push other equipment when extra traction or assistance is required.

Activities

Operating Vehicles, Mechanized Devices, or Equipment

Drive trucks or truck-mounted equipment.

Inspecting Equipment, Structures, or Material

Locate equipment or materials in need of repair or replacement.

Test air quality at work sites.

Controlling Machines and Processes

Operate equipment or vehicles to clear construction sites or move materials.

Operate heavy-duty construction or installation equipment.

Operate pumps or compressors.

Operate road-surfacing equipment.

Monitor Processes, Materials, or Surroundings

Monitor construction operations.

Handling and Moving Objects

Install equipment attachments or components.

Position construction or extraction equipment.

Making Decisions and Solving Problems

Select construction equipment.

Communicating with Supervisors, Peers, or Subordinates

Signal equipment operators to indicate proper equipment positioning.

Repairing and Maintaining Mechanical Equipment

Maintain construction tools or equipment.

Processing Information

Updating and Using Relevant Knowledge

Update job related knowledge or skills.

Organizing, Planning, and Prioritizing Work

Performing General Physical Activities

Assist skilled construction or extraction personnel.

Compact materials to create level bases.

Load or unload materials used in construction or extraction.

Move construction or extraction materials to locations where they are needed.

Remove debris or vegetation from work sites.

Coordinating the Work and Activities of Others

Identifying Objects, Actions, and Events

Evaluating Information to Determine Compliance with Standards

Thinking Creatively

Judging the Qualities of Things, Services, or People

Establishing and Maintaining Interpersonal Relationships

Developing Objectives and Strategies

Scheduling Work and Activities

Documenting/Recording Information

Record operational or environmental data.

Tools and Technology

Tools

Scraper

Rubber tire earth mover

Excavator

Dump trucks

- Belly dumpers
- Heavy dump trucks
- Single axle dump trucks
- Tandem axle dump trucks

Front end loaders

- End loaders
- Front end loaders
- Tracked loaders

Graders

- Graders
- Motor graders
- Tilt graders

Hoists

- Hoists
- Silent hoists
- Tugger hoists

Power saws

- Chain saws
- Circular saws
- Concrete saws
- Power saws

Signature of Employee _____ Date _____

Printed Name of Employee _____

Signature of Employer _____ Date _____

Printed Name of Employer _____

Affirmative Action Plan/Equal Employment Opportunity (AAP/EEO) Statement

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