

DIRECTIONAL BORE OPERATOR

Openings: Eight (8)

Summary:

This position involves heavy physical activity, excellent physical condition essential. Extensive knowledge of construction required. Employee must demonstrate ability to work well with others, to accept directions and/or instructions from supervisors and to complete tasks without supervision. Job duties will vary from project to project. Additional duties and tasks also will be assigned.

Operates a directional boring system that bores through the ground and pulls back the respective telecommunications conduit and or cabling.

Reports to Construction Superintendent.

Requires a high school diploma or its equivalent.

Requires a Class C CDL license.

Duties:

- a) Operation of a Ditch Witch JT1220 or equivalent directional boring machine.
- b) Calculate the path for the drill
- c) Monitor the drilling progress ensuring that all sensor readings and fluids are maintained at optimal conditions
- d) Interact with Locator to verify path of drill
- e) Assess the soil and ground conditions selecting the optimal drill bit to use
- f) Document the footage per day drilled and conduit placed on a daily basis
- g) Document the path depth and angles for each bore
- h) Monitor the back bore activity along with the pulling back of the respective conduit(s)
- i) Movement of bore system, inclusive of mud mixer, on a daily basis from bore site to bore site.
- j) Movement of the bore system on and off trailers
- k) Responsible for ensuring that the bore system is ready for operational on a daily basis ensuring all preventative maintenance is accomplished
- l) Responsible for ensuring that the bore system is ready to operate for the whole day, inclusive of ensuring adequate fuel, oil, mud mix, conduit, pulling eyes, swivels, etc. is available for days operation

Work Environment:

Operators work outdoors in all kinds of weather conditions. They often sit for long periods and are subject to loud noise and vibrations. They may work indoors while repairing equipment

Work Activities

- a) Drive or guide trucks or other vehicle-mounted equipment into position.
- b) Level or stabilize rig.

- c) Assemble and position drilling machine.
- d) Verify depth and level of boring position.
- e) Start, stop, and control drilling speed.
- f) Monitor drilling and changes in surfaces drilled through.
- g) Change drill bits, or add extra lengths to drill rod, as bit advances.
- h) Ensure drill bit is well lubricated.
- i) Record drilling progress and geological data.
- j) Maintain and repair drilling machinery.

Work Tasks

- a) Control machines and processes.
- b) Monitor events, materials, and surroundings.
- c) Perform activities that use the whole body.
- d) Operate vehicles or mechanized equipment.
- e) Handle and move objects.
- f) Identify objects, actions, and events.
- g) Get information needed to do the job.
- h) Repair and maintain mechanical equipment.
- i) Inspect equipment, structures, or materials.
- j) Judge the value of objects, services, or people.
- k) Make decisions and solve problems.
- l) Estimate sizes, quantities, time, cost, or materials needed.
- m) Communicate with supervisors, peers, or subordinates.

Working Conditions

Interpersonal Relationships

- a) Have a low level of contact with others.

Physical Work Conditions

- a) Almost always work outdoors. Infrequently spend time in offices.
- b) Always wear hard hats, safety glasses, ear protection, and work gloves.
- c) Sometimes exposed to hazardous equipment.
- d) Often exposed to loud sounds and noises.
- e) Sometimes exposed to contaminants.
- f) Sometimes exposed to very hot or very cold temperatures.
- g) Sometimes exposed to whole body vibrations.

Work Performance

- a) Must fully complete and be accurate in their work.

- b) Must keep up with the speed of the equipment and machinery.
- c) Must be aware of changes in the drilling in case of the need to change or extend drill bits.

Physical Demands

- a) Stand for long periods of time.
- b) Use hands to handle, control, or feel objects, tools, or controls.
- c) Bend or twist the body.
- d) Repeat the same movements over and over.

Operator must be able to:

- a) Make quick, precise adjustments to machine controls.
- b) Use muscles to lift, push, pull, or carry heavy objects.
- c) Determine the distance between objects.
- d) Use hands or fingers to grasp, move, or assemble objects.
- e) Move two or more limbs together (for example, two arms, two legs, or one leg and one arm) while remaining in one place.
- f) Choose quickly and correctly among various movements when responding to different signals.
- g) See details of objects that are near and far away.
- h) React quickly using hands, fingers, or feet.
- i) Bend, stretch, twist, or reach out with the body, arms, and/or legs.
- j) Use stomach and lower back muscles to support the body for long periods without getting tired.
- k) Hold the arm and hand in one position or hold the hand steady while moving the arm.
- l) Use muscles to jump, sprint, or throw objects.
- m) See differences between colors, shades, and brightness.
- n) Use muscles for extended periods without getting tired.
- o) While looking forward, see objects or movements that are off to the side.
- p) Adjust body movements or equipment controls to keep pace with speed changes of moving objects.
- q) Hear sounds and recognize the difference between them.
- r) Focus on one source of sound and ignore others.
- s) Move arms and legs quickly.
- t) Coordinate movement of several parts of the body, such as arms and legs, while the body is moving.
- u) See objects in very bright or very low light.
- v) Determine from which direction a sound came.
- w) Be physically active for long periods without getting out of breath.

- x) Speak clearly so listeners can understand.
 - y) Keep or regain the body's balance or stay upright when in an unstable position.
 - z) Quickly and repeatedly bend, stretch, twist, or reach out with the body, arms, and/or legs.
- aa) Recognize and understand the speech of another person.

Skills and Abilities

Communicate

- a) Understand spoken information.
- b) Express ideas clearly when speaking or writing.

Reason and Problem Solve

- a) Follow guidelines to arrange objects or actions in a certain order.
- b) Notice when something is wrong or is likely to go wrong.

Use Math and Science

- a) Use scientific methods to solve problems.
- b) Use math skills to solve problems.
- c) Add, subtract, multiply, and divide quickly and correctly.

Work with Things

- a) Operate and control equipment.
- b) Watch gauges, dials, and output to make sure drill is working properly.
- c) Determine the tools and equipment needed to do a job.
- d) Inspect and evaluate the quality of products.
- e) Maintain equipment on a routine basis. Determine when and what kind of maintenance is needed.

Perceive and Visualize

- a) Imagine how something will look if it is moved around or its parts are rearranged.
- b) Know one's location in a physical setting and recognize where other objects are located in relation to oneself.
- c) Quickly and accurately compare letters, numbers, objects, pictures, or patterns.

Knowledge

- a) Mechanical: Knowledge of designing, using, and repairing machines and tools.
- b) Engineering and Technology: Knowledge of how to use computers, machines, and tools to do work more usefully.
- c) English Language: Speak, write, and read English fluently. Knowledge of the meaning, spelling, and use of the English language. Demonstrate proper grammar in both spoken and written communications.