8367 TRANSPORTATION WORKER 3

Nature of Work

Under limited supervision, at the journey level performs skilled work in the construction and maintenance of highways, related buildings and structures, and erecting and operating a drilling rig. May serve as a working shop leader in a County Garage. Operates a variety of heavy motorized maintenance equipment such as power graders, bulldozer, backhoe, and semi-trailer. Transports equipment across state to construction or maintenance sites; makes major repairs to roads and bridges. Performs major overhaul of gasoline and diesel powered automotive and highway maintenance equipment. Performs full-performance experienced work maintaining and repairing a variety of equipment used in heating, ventilation, cooling and general operation of public buildings. May be exposed to hazardous working conditions and inclement weather. Performs related work as required.

Examples of Work

Assists Driller in positioning drilling rig by clearing brush and other obstructions and using winch to move rig.

Adds rods or augers to drill using wrench.

Removes core samples from core barrel and places in core boxes; labels core boxes for depth and location of sample.

Assists in the cleaning and maintenance of drilling rig and related tools and equipment.

Drives medium to heavy truck to transport drilling rig to drilling site.

Cleans drilling site of debris after drilling is complete.

Fabricates engine and machinery parts from blueprints and drawings using machinist skills and equipment (lathes, drills, grinders and milling machines).

Installs, maintains and repairs equipment such as: air conditioners, heaters, walk-in and reach-in refrigerators, washers, dryers, water chillers and coolers, vent fans, vending machines, food preparation equipment (such as mixers, blenders, slicers, stoves and warmers, steam and hot water distribution lines), stationary boilers, compressors, generators, pumps, water filtration units and heat exchangers.

Performs preventive maintenance on heating and cooling equipment such as tightening fan belts and regularly changing oil and filters.

Performs routine repairs to equipment such as replacing motors, belts, seals, bearings, and blades.

Performs general building maintenance as required by replacing or installing plumbing and sprinkler systems and deliming hot water heaters and water coolers.

Designs, lays out and fabricates highway signs.

May lead and train lower level workers in performing skilled and semi-skilled work.

Constructs concrete forms from plans and specifications with plywood and dimensional lumber using hand and power tools such as hammers, electric saws, drills, levels and rulers.

Installs and ties reinforcing steel bars in concrete forms using wire, pliers and rulers to comply with the required specifications of bridge foundations.

Pours, vibrates and finishes concrete using power vibrators and trowels.

Climbs high steel structures to repair damaged steel bridge components.

Examples of Work (Cont'd)

Constructs concrete forms for inlets, manholes, headwalls, and retaining walls; repairs or replaces rubble, masonry, or stone walls.

Cleans, sands, tapes, repairs dents and replaces rusted parts of vehicle bodies in preparation for painting.

Paints vehicles and equipment using air compressors and paint sprayers.

Installs windshields and door glass on vehicles and equipment.

Repairs highway maintenance vehicles and equipment using gas and electrical welders, torches, shielded metal arcs and other welding equipment.

Fabricates a variety of attachments and parts for highway equipment such as snow blades, truck frames and hitches.

Operates truck mounted welding equipment to make emergency repairs on vehicles and equipment in the field.

Patches portland cement pavement and bridge decks.

Installs steel piling, steel reinforcing bars, places and finishes concrete and cleans and paints structural steel.

Performs highway coding, spotting, centerline and edge line striping in highway painting operations.

Installs and removes sign posts; erects traffic control signs and barricades on construction and maintenance projects.

Seals joints and cracks in paved surfaces.

Repairs and constructs asphalt paved culverts.

Sets and detonates explosive charges for earth removal purposes.

Changes and repairs tires or vehicles and heavy equipment using tire cage, hoist, impact wrenches and air compressors.

May be required to drive a pickup truck.

Fabricates and installs structural steel by cutting steel to exact specification with acetylene torches, placing and bolting steel in correct position to repair existing or construct new bridges. Mixes small quantities of concrete to fill repaired bridge surfaces.

Installs timber deck on steel beam structures using dimensional lumber, hammer and nails.

Installs steel piling in pre-drilled holes by placing poles accurately using levels and rulers.

Cuts steel piling to correct dimensions with acetylene cutting torches.

Places pre-cast prestressed concrete beams on bridge decks using slings and guide ropes, drills holes in abutments using rock drills for anchor bolts to accurately place and secure concrete beams.

Operates hydraulic crane truck for loading, hauling, unloading and placing materials at the job site.

Drives trucks to and from job site to transport materials.

May specialize in the operation of a twelve ton hydraulic crane.

Cleans and paints structural steel used for repair and construction of new bridges using sand blasting machines, air compressors and airless paint sprayers.

Examples of Work (Cont'd)

Operates one or more pieces of equipment such as: bituminous paver, bulldozer, crane, stone crusher, power grader, hydraulic excavator, centerline paint machine, track endloader, backhoe, rock wagon, pavement shaver, or pavement scraper.

Drives tractor-trailer or tandem-axle trucks to transport equipment and materials to and from work sites.

Excavates, backfills, grades, or levels soil and aggregates according to plans and specifications. Grades surfaces, rolls or compacts soil and aggregates according to plans and specifications on flat or rolling terrain.

Checks equipment to determine operational readiness and makes minor corrections as required. Makes minor mechanical repairs in the field such as changing tires, blades, or filters.

May be required to operate other related highway maintenance equipment as employee training permits.

Performs a full-range of maintenance, repair, and overhaul on diesel powered engines and components exclusive to diesel equipment operation.

Performs preventive maintenance inspections of heavy equipment.

Performs pre-operational check of equipment.

Maintains safe and orderly work areas.

Drives equipment after repairs to test operation.

Knowledge, Skills and Abilities

Knowledge of safety practices used in structural steel construction.

Knowledge of the procedures, techniques and equipment used in the assigned areas.

Knowledge of the occupational hazards and applicable safety standards and procedures of the assigned area.

Knowledge of basic blueprint reading.

Knowledge of general construction and maintenance practices.

Knowledge of the methods, materials, tools and equipment used in the maintenance, repair and overhaul of gasoline and diesel powered engines and their components.

Knowledge of the operation of motor driven equipment.

Ability to diagnose mechanical problems and determine appropriate procedures for repairs.

Ability to safely operate basic hand and power tools.

Ability to operate a heavy truck to transport drilling rig in rough terrain.

Ability to work safely in assembling drilling apparatus such as rods, augers, water pumps.

Ability to read operation manuals, blueprints, and specifications in the assigned areas.

Ability to operate motorized equipment in the assigned areas.

Ability to perform skilled trades work in bridge construction and maintenance.

Ability to operate and maintain highway equipment and attachments.

Ability to use power and plumbing tools in the repair of building fixtures and facilities.

Ability to install, perform preventive maintenance on and repair equipment such as: air conditioners, air compressors, generators, pumps, boilers, washers, dryers and refrigerators.

Knowledge, Skills and Abilities (Cont'd)

Ability to read gauges and meters to monitor the proper operation of heating, ventilation and cooling systems.

Ability to work safely in assembling drilling apparatus such as rods, augers, water pumps.

Ability to understand and follow oral and written instructions.

Ability to maintain accurate records of daily maintenance activities and of gauges and meters used in heating ventilation and cooling systems.

Ability to climb high steel structures.

Ability to train and work cooperatively with other skilled and semi-skilled workers.

Minimum Qualifications

Training: No formal education required.

Experience: Four years of full-time or equivalent part-time paid or non-paid experience automotive body repair, building trades, equipment operation or repair, highway maintenance work or metal work or in building equipment repair including work in heating, ventilation and cooling;

OR

Two years of full-time or equivalent part-time paid employment in bridge or structural steel construction;

OR

Two years of full-time or equivalent part-time paid experience in core drilling, oil or gas drilling or surface mining requiring the operation of drilling equipment or augers; **OR**Two years as a Transportation Worker 2 - Bridge Maintenance Worker.

OR

Crew Chief Only: Three years of full-time or equivalent part-time paid experience in highway construction or highway maintenance, or in bridge or structural steel construction.

Substitution:

Successful completion of an approved vocational school program in automotive mechanics of at least 1,080 clock hours may be substituted for one year of the required experience.

Special Requirements:

(1) A valid Motor Vehicle Operator's License; (2) A valid class A or B Commercial Driver's License is required in the area of assignment of Equipment Operation, and may be required in Bridge Maintenance, Equipment Repair, Highway Maintenance, and Core Drilling at the discretion of the appointing authority; (3) some positions in the class may require certification in the assigned area after appointment; (4) specific positions may require certification from a federal EPA approved testing organization as a certified technician required by the Clean Air Act on refrigerant recycling

AREAS OF ASSIGNMENT:

Automotive Body Repair

Bridge Maintenance

Building Trades

Core Drilling

Equipment Operation

Equipment Repair

Highway Maintenance

Metal Work

Crew Chief

Established: 11/16/93

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