

REPORTS TO: Equipment Maintenance Manager

FLSA: Non-Exempt

HEAVY EQUIPMENT MECHANIC

DEFINITION

Under general supervision, the Heavy Equipment Mechanic is fully experienced at journey-level mechanical work and skilled in the repair and maintenance of diversified heavy automotive equipment. Incumbent performs a variety of difficult inspections, mechanical diagnosis, maintenance and servicing, and repair work on all types of vehicles used by the district including materials recovery facility (MRF) equipment. May perform other job related duties as required.

ESSENTIAL FUNCTIONS

Inspects, locates problems, and diagnoses mechanical and/or electrical defects on District automobiles, trucks, heavy equipment, materials recovery facility equipment, and other power-driven equipment; determines the extent of necessary repairs; overhauls, repairs, and adjusts engines, transmissions, differentials, and clutches; tunes-ups engines, replacing ignition parts, and cleaning and adjusting carburetors and fuel injection systems; replaces or repairs faulty parts, including wheel bearings, oil seals, shock absorbers, exhaust systems, steering mechanisms, and other parts and equipment; repairs and replaces components, including generators, distributors, relays, lights, and switches; performs front-end alignments and repairs; repairs and adjusts gasoline generators, water pumps, and air compressors; performs services in the MRF such as replacing bearings, conveyors, splice bands, and welding of equipment; may perform general service of vehicles such as changing oil, filters, lubrication and hydraulic fluids; performs welding work to adapt and fabricate parts and equipment; performs wheel and rim repairs on heavy equipment; performs specialized maintenance and repairs on diesel equipment and hydraulic systems; performs the BIT truck inspections; carries out preventive maintenance programs; makes field and emergency repairs as necessary including changing tires and/or repairing flats; maintains records on time and materials used; road tests repaired equipment; may install emergency warning equipment and radios; may operate District equipment to fill in for equipment operators; maintains and repairs District stationary equipment including gates, well pumps, electrical fixtures, and plumbing fixtures.

This classification is distinguished from the Assistant Mechanic I, II by the requirement that incumbents must possess the knowledge and skill to perform complex and skilled mechanical work on heavy equipment.

CLASSIFICATIONS DIRECTLY SUPERVISED

May provide lead direction and work coordination for Assistant Mechanics and/or other District personnel as assigned.

QUALIFICATIONS

Knowledge of:

- Principles, methods, materials, equipment, procedures, and practices used in automotive, heavy, industrial, and power-driven equipment maintenance and repair.
- Fundamentals of electricity, both AC and DC.
- Hydraulic valves and controls, hydraulic and air brake systems, and electronic ignition systems.
- Operation, care, and maintenance of gasoline and diesel engines and components.
- Principles and methods of gas and electrical welding.
- Principles and methods of preventive maintenance.
- Maintenance of wells, pumps, and collection systems.
- Safe work practices and procedures.

Ability to:

- Inspect and locate mechanical and electrical defects on automotive equipment, heavy equipment, industrial and power-driven equipment, and power generation systems.
- Diagnose mechanical and electrical problems and determine corrective procedures.
- Skillfully use a variety of hand and power tools in the maintenance and repair of automotive equipment, heavy equipment, industrial and power-driven equipment and power generation systems.
- Perform skilled testing, adjustment, repair and overhaul work on diesel engines, hydraulic systems, and materials recovery facilities equipment.
- Perform gas and electrical welding.
- Read and interpret shop and repair manuals.
- Estimate time, labor, and materials cost for maintenance and repair projects.
- Prepare and maintain a variety of reports to include repair orders and inspections check lists.
- Operate equipment in a safe manner.
- Carry out preventive maintenance programs.
- Establish and maintain cooperative working relationships.
- Apply sound judgment in a variety of circumstances with or without specific instructions.
- Adhere to an assigned work schedule and meet District attendance standards.

Training and Experience: Any combination of training and experience which would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the required knowledge and abilities would be:

Two (2) years of increasingly responsible journey level work experience performing skilled maintenance and repair work on automotive, heavy, industrial, and other power-driven equipment, including substantial experience on diesel engines, hydraulic systems, and heavy equipment electrical.

Special Requirements:

- Possession of a current California Driver's License issued by the State Department of Motor Vehicles.
- Continued possession of a valid California Driver's license and compliance with established District vehicle operation standards, including on-going insurability to drive District vehicles, are conditions of employment.
- Must acquire and maintain a California Class B Driver's License within six months of employment.
- Incumbents are expected to provide their own tools.

PHYSICAL AND SENSORY REQUIREMENTS

The physical and sensory abilities required for this position include:

- Ability to stand and walk on uneven surfaces.
- Mobility, flexibility, gross body coordination, and dexterity sufficient to stand, sit, walk, stoop, kneel, crouch, reach, bend, twist, and turn.
- Acute vision, depth perception and peripheral visions, visual color discrimination, hearing, voice, smell, and sense of touch.
- Ability to speak clearly and with volume, required to carry on clear conversations in person, in group situation and on the phone.
- Ability to use a variety of hand and power equipment, electrical testing equipment used in the mechanical trades; operate a variety of heavy equipment.
- Ability to keyboard.
- Ability to frequently lift and/or move up to 50 pounds.

Work Environment - The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Work is typically performed in both indoor and outdoor environments; occasionally will be exposed to varying temperatures; regular exposure to dust; some exposure to fumes, grease, and oil; often works around moving vehicles and equipment; exposure to electrical current and energy; constant contact with other staff.

ACKNOWLEDGEMENT

I verify that I have received a copy of the job description and I understand the requirements of this position.

Employee Signature

Date

Employee Name – Please Print

Heavy Equipment Mechanic - Minimum Tool Expectation

- Combination wrenches SAE – 7/32" – 1 1/2"
- Combination wrenches Metric – 8mm – 22mm
- Adjustable wrenches – 6" – 24"
- Oil filter wrenches (3)
- 1/4" drive standard SAE and Metric – ratchet (2), extensions (3), deep and shallow sockets 7/32" – 9/16" with Metric of comparable size range.
- 3/8" drive standard SAE and Metric – ratchet (3), air ratchet, extensions (3), deep and shallow sockets 3/8" – 3/4" with Metric of comparable size range.
- 1/2" drive standard SAE and Metric – ratchet (3), breaker bar, extensions (3), deep and shallow sockets, 3/8" – 1 1/4" with Metric of comparable size range.
- 1/2" drive impact SAE and Metric – impact wrench, extensions (3), deep and shallow sockets 3/8" – 1 1/4" with Metric of comparable size range.
- 3/4" drive standard SAE and Metric – ratchet, breaker bar, extensions (2), shallow sockets 7/8" – 1 1/2" with Metric of comparable size range.
- 3/4" drive impact SAE and Metric– extensions (2), shallow sockets 7/8" – 1 1/2" with Metric of comparable size range.
- Crows feet - 3/8" and 1/2" drive SAE and Metric - 1/2" – 1 1/4" with Metric of comparable size range.
- Pliers (2), wire cutters (2), needle nose (2), wire crimp/striper (1), channel locks (2), vise grips (3), and snap ring (3)
- Screw drivers – Phillips (4), Flat (4), and Torx assortment.
- Allen wrench assortment- SAE and metric.
- Pry bar assortment.
- Air tools - die grinder, chisel hammer, and drill.
- File assortment (3).
- Hammer assortment (3).
- Chisel and punch set.
- Bolt extraction kit.
- Tap and die set – 1/4" to 1/2".
- Drill bits – 9/32" to 1/2".
- Multi-meter, light tester, jumper wire assortment.
- Feeler gauge assortment.
- 25' measuring tape.
- Welding helmet.

- Tool box that will contain tools with ability to lock.
- Roll-around cart for taking needed tools to work site.