State of Washington Class Specification

HEAVY EQUIPMENT MECHANIC 3

Class Code - new

**Definition**

Leads lower-level Heavy Equipment Mechanics; or acts as the designated specialist in a geographic region or area;

OR,

Provides supervision of an offender crew in heavy or commercial/industrial equipment repair, and performs all duties normally assigned to lower level Heavy Equipment Mechanics.

**Distinguishing Characteristics**

As a lead worker, leads and performs senior-level heavy equipment mechanic work. Regularly assigns, instructs and checks the work of assigned lower level Heavy Equipment Mechanics.

As a designated specialist, diagnoses, services and performs complex repairs on equipment in a functional area such complex fuel station and refueling infrastructures, mechanical and computer electronic controls, generators (greater than 25kW) and air/hydraulic systems.

**Typical Work**

Diagnoses, services and repairs various systems that are found on heavy equipment such as mechanical and computer electronic controls, air/hydraulic brake systems, transmissions, computer controlled automatic and manual transmissions, high voltage generators (greater than 25kW), propane powered equipment, and pneumatic systems;

Repairs and maintains motor vehicle refueling stations, generators, water pumps, and material laboratory trailers along with their associated equipment including tank monitoring and fuel dispensing equipment and transfer switches;

Diagnoses and troubleshoots hydraulic defects on heavy duty equipment; analyzes and interprets readings (pressure, flow, heat, vibration, noise and cycle times) and verifies the proper operation of components by isolating functions in branch circuits; interprets fluid analysis reports and specifies filtration, flushing, and sampling of hydraulic fluids; identifies properties of hydraulic fluids and compatibility with seal materials; specifies hydraulic accumulators for system operation, and hydraulic reservoirs to meet system requirements; analyzes load and motion;

Operates such shop equipment as grinders, vacuum gauge, voltage and regulator tester, drill press, wheel pullers, lathes, jacks, air tools, OBD diagnostic scanner, digital volt meters, computerized diagnostic devices and software, emission testers, and various hand tools and other equipment used in heavy and/or industrial/commercial equipment repair;

Makes emergency field repairs to a variety of specialized equipment, and performs inspections on a variety of heavy equipment in the field;

Coordinates equipment compliance, preparation, repair and disposal;

Assists in the initiation, preparation, and maintenance of equipment records;

Acts in the absence of the equipment supervisor;

Performs other duties as assigned.

**Knowledge & Abilities**

Knowledge of: standard practices, materials, tools, and equipment used in the repair and maintenance of heavy equipment; safety issues in the use of tools, equipment, and supplies used in repair of heavy equipment; body and frame construction.

Ability to: diagnose mechanical, electrical and hydraulic malfunctions in heavy and/or industrial/commercial equipment; read manuals and schematics; rebuild engines and major driveline components in heavy equipment; weld, fabricate and braze; communicate with other mechanics about repair work needed; enter repair information in fleet maintenance management software; lead, mentor, assist, and teach employees.

**Legal Requirement(s)**

There may be instances where individual positions must have additional licenses or certification.  It is the employer’s responsibility to ensure the appropriate licenses/certifications are obtained for each position.

**Desirable Qualifications**

Journey-level standing as a heavy and/or industrial/commercial equipment mechanic as demonstrated by completion of a recognized apprenticeship; or by journey-level standing as recognized by a labor union; AND one year of experience repairing and maintaining heavy equipment.

OR

Successful completion of vocational technical training in heavy and/or industrial/commercial equipment repair to include welding AND four years of applicable work experience.

OR

One year as a Heavy Equipment Mechanic 2.

A valid driver's license is required.

Some positions may require a Commercial Driver’s License.

**Class Specification History**

Establishment; adopted 6/30/2019, effective 7/1/2019