



EQUIPMENT TECHNICIAN

Department: Planning and Public Works, Fleet Rental

Job Class: 567200

Pay Range: Maintenance/Trades 24

FLSA: Non-Exempt

Represented: Yes

Classification descriptions are intended to present a descriptive list of the range of duties performed by employees in this class. Classification descriptions are not intended to reflect all duties performed within the job.

GENERAL FUNCTION: This is skilled mechanical work performed for Pierce County. Employees occupying positions in this class are responsible for performing a wide variety of mechanical, preventative maintenance functions to restore or maintain safe, standard operation of motor vehicles, road maintenance vehicles, and construction equipment.

SERIES CONCEPT: This class is the first level position of the journey-level mechanical positions. The job series consists of four levels. This class is distinguished from the Equipment Service Attendant job class by the attainment of journey-level status.

ESSENTIAL FUNCTIONS:

Fleet Garage: Fleet technician duties encompass similar duties of the Planning and Public Works technicians with the exception of working on construction equipment or working out of field service trucks. Fleet technicians typically may be required to work on motorcycles whereas Planning and Public Works technicians typically would not work on motorcycles.

Planning and Public Works: (The job functions listed below may apply to Planning and Public Works and Fleet Garage)

- Perform progressive preventative maintenance on gas and diesel powered vehicles, trailers, and associated equipment.
- Perform full range of maintenance and repair functions on gas and diesel powered vehicles, trailers, and associated equipment.
- May repair light duty transmissions, rear end assemblies, electrical units, brake systems, fuel and other mechanical systems.
- Inspect, determine needed repairs, and repair pickup trucks, dump trucks, road construction equipment, and related county owned vehicles and trailers.
- Work may include tune-ups, relining and adjusting brakes; engine, transmission, and differential replacement and repair, and electrical component replacement and repair.
- Repair gas and diesel engines, transmission, fuel, electrical and hydraulic systems and components.
- May operate a specially equipped mechanic's truck out of a central shop area or satellite shop and make standard mechanical repairs and adjustments or improvise emergency repairs, including welding, in the field to all types of road equipment and mechanical plant facilities.
- Perform equipment technician duties in the central shop area.
- Repair automobiles, buses, trucks, and other road construction equipment. Examine vehicles and discuss with operators the nature and extent of damage or malfunction. Plan work procedures, using charts, technical manuals, and experience.
- Raise vehicle, using hydraulic jack or hoist, to gain access to mechanical units bolted to underside of vehicle.
- May remove units, such as engine, transmission, or differential using wrenches and hoist.

EQUIPMENT TECHNICIAN

Classification Description – Pierce County

Page 2

ESSENTIAL FUNCTIONS: (continued)

- May disassemble and inspect parts for wear using micrometers, calipers, and thickness gauges.
- May repair or replace parts, such as gears, valves and bearings, using hand tools.
- May repair or replace fuel system components, blowers, alternators, distributors, starts, and pumps.
- May operate complex power tools.
- May perform welding and fabrication as needed to maintain equipment using various types of welding and cutting equipment.
- Disassemble, clean, and reassemble mechanical equipment, motors, and electrical components; and perform repairs.
- Prepare work areas for accomplishing work assignments and clean up after job is finished.
- Assist in rigging required for movement and placement of heavy machinery, motors, and equipment.
- Perform test operations on machinery and electrical equipment repaired.
- May operate heavy automotive and excavation equipment and traveling cranes for maintenance purposes.
- May inspect and perform minor maintenance on Pierce County Ferry system equipment. Work may include confined space entry for hydraulic system and mechanical system inspection and repairs.
- Prepare reports on mechanical work performed and ensure vehicle records are maintained.
- Learn and observe safety precautions, particularly on work performed on energized equipment.
- May assist in ordering of parts and receiving and maintaining parts inventory.
- Dismantle, repair, and/or replace all types of automotive and motor cycle parts.
- Install and repair specialized equipment used on police vehicles and motor cycles.
- Arrange for repair work to be performed by local dealers for work still under warranty and at other times when deemed necessary by the lead mechanic.
- Inspect tires, replace tires, align wheels, adjust brakes and perform other mechanical or electrical adjustments.
- Provide assistance and training to others assigned to work in the garage area including extra hires, trustees, or other individuals.
- Lift or carry parts or equipment weighing up fifty (50) pounds.

OTHER JOB FUNCTIONS:

- Perform manual labor and other related work as assigned.

SUPERVISION RECEIVED AND EXERCISED: Work is performed under the general supervision of the Lead Technician. This class does not supervise lower level job classifications, but may provide assistance, training, and direction to Equipment Service Attendants, extra hires, trustees, or others assigned to work in the garage area.

WORK ENVIRONMENT: The work environment characteristics described herein are representative of those employees encounter while performing the essential functions. Work is performed in a garage, maintenance shop or in the field at various job sites. Travel to work locations, job sites, or vendor locations is required. Extended periods of standing, bending, lifting, or carrying parts and equipment are required. Work is subject to loud noises, hazardous fumes, oils, gases, diesel fuel, cleaning solvents or chemicals, and is subject to inclement weather conditions and traffic. Work maybe performed on a varied shift schedule at any of the Public Works shop locations or other County facility, or fleet garage.

EQUIPMENT TECHNICIAN

Classification Description – Pierce County

Page 3

PHYSICAL REQUIREMENTS: The physical demands described herein are representative of those that must be met by an employee to successfully perform the essential functions. This position requires finger dexterity to use and operate hand and power tools or equipment; sitting, bending, standing, and lifting materials or equipment for extended periods of time, use of sight and hearing to inspect, observe, and monitor maintenance and repair activities and driving to various sites and work locations.

KNOWLEDGE, SKILLS, AND ABILITIES:

Knowledge of:

- Standard practices, methods, materials, tools, and equipment of the automotive mechanic trade.
- Principles of operation of internal and combustion engines.
- Use and functions of automotive testing and diagnostic equipment.
- Occupational hazards and safety precautions associated with the automotive trade.
- Computer basics; e-mail, data look up, and data input.

Skill in:

- Use, care, and safe operation of hand and power tools, electronic and mechanical testing equipment, and welding equipment used in automotive and equipment repair.

Ability to:

- Inspect, diagnose, adjust, maintain, and repair automotive and construction equipment.
- Estimate time and materials needed to complete assignments.
- Demonstrate sufficient strength, agility, and dexterity to perform the work of the position.
- Establish and maintain effective working relationships with co-workers and the public.
- Read and understand technical materials, such as repair manuals, parts catalogues, and automotive and equipment specifications.
- Operate power and pneumatic tools and equipment and use common hand tools.
- Use precision gauges, electrical testing instruments and measuring instruments peculiar to the trades.
- Understand and execute oral and written instructions and to work independently in the performance of the work of the position.
- Perform and complete multiple work assignments in a timely manner.
- Work back and forth across multiple projects as parts are being delivered.
- Stand, sit, or bend for long periods of time.
- Lift or carry parts or equipment weighing up to fifty pounds.
- Travel to various job sites.
- Physically perform the essential job functions.

MINIMUM REQUIREMENTS TO APPLY: Must be able to verify journey level standing as an Equipment Technician by providing one of the following:

- Certification as Master Technician from Automotive Service Excellence (ASE)
- Full journey level status in Automotive Machinists' Union
- Four years of work experience as a full-time assistant to a journey level mechanic
- Completion of a relevant and recognized apprenticeship program

EQUIPMENT TECHNICIAN

Classification Description – Pierce County

Page 4

SPECIAL REQUIREMENTS AND/OR QUALIFICATIONS: Possession of, or ability to obtain, a valid Washington State Driver's License. Possession of, or ability to obtain within six months, a valid Washington State Commercial Driver's License Class A (Public Works and Utilities Department only). Satisfactory physical condition as evidenced by a County-approved physical examination. Must be willing to work any shift assigned and at any shop or field location.

TOOLS: Must provide own tool kit with hand tools required to efficiently perform the essential functions. Tool Kit shall at a minimum contain the following:

- Metric and standard, open-end socket wrenches
- Standard open end wrenches with size 1/4" – 1"
- Metric open end wrenches with sizes 6mm – 20mm
- Standard socket sets 1/4", 3/8", 1/2" drive with size to 1"
- Metric socket sets with sizes 6mm – 20mm
- Air operated impact wrenches
- Impact socket sets
- 3/8" drill with drill index
- Various pliers, screwdrivers and other small hand tools
- High-Impedance multimeter