

POWER EQUIPMENT MECHANIC I

DEFINITION

Under general supervision, to inspect, diagnose, overhaul, and make major and minor mechanical repairs to gasoline and/or diesel-powered automotive and heavy equipment; and to do related work as required.

DISTINGUISHING CHARACTERISTICS

This is the journey level class in the Power Equipment Mechanic series. The incumbents in this class diagnose a variety of mechanical problems and perform the full range of adjustments and repair work on automotive and heavy equipment.

REPORTS TO

Shop Supervisor.

CLASSIFICATIONS DIRECTLY SUPERVISED

None.

EXAMPLES OF DUTIES

Performs maintenance and repair work on a wide variety of automotive and diesel-powered equipment, including graders, dozers, rollers, trucks, and backhoes; makes decisions as to the extent and type of repairs to be done on individual pieces of equipment; estimates the costs of automotive and equipment repairs; requisitions automotive and diesel-powered equipment parts; makes major and minor mechanical repairs including engine tune-ups, brake relining, electrical system repairs, and radio installations; disassembles, repairs, grinds, or replaces worn parts; fits new parts and adjusts engines, water and fuel pumps, carburetors and fuel injectors, governors, starters, clutches, transmissions, differentials, brakes, and steering mechanisms; inspects shop work for proper completion; keeps records of repairs and maintenance work; prepares reports; requests supplies and materials needed; implements shop safety practices and procedures; discusses work progress with supervisor; attends meetings.

TYPICAL PHYSICAL REQUIREMENTS

Sit for extended periods; frequently stand, walk, stoop, kneel, and crouch; physical ability to lift and carry objects weighing up to 50 pounds unassisted; normal manual dexterity and eye-hand coordination; corrected hearing and vision to normal range; verbal communication; use of equipment including hand and power tools, electrical testing equipment, and telephones.

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TYPICAL WORKING CONDITIONS

Work is performed in office and shop environments; occasionally works outside; some exposure to smoke, gasses, and fumes; exposure to hazards such as moving machine parts and electrical current; continuous contact with staff and the public.

DESIRABLE QUALIFICATIONS

Knowledge of:

- Methods, materials, tools, and equipment used in the testing, adjustment, repair, and overhaul of gas and diesel-powered equipment.
- Theory and operation of gasoline and diesel engines.
- Principles and methods of gas and electrical welding.
- Painting methods and techniques.
- Safe work practices and Federal and State safety regulations.
- Principles and methods used in a program of preventive maintenance.
- Hydraulic valves and controls, hydraulic and air brake systems and electronic ignition systems.
- Tools, methods, materials and equipment used in automotive and body repair work.

Ability to:

- Inspect and accurately diagnose mechanical defects.
- Skillfully use a variety of hand and power tools in the repair of automotive and heavy equipment.
- Perform highly skilled testing, adjustment, repair, and overhaul work on gasoline and diesel powered automotive and heavy equipment.
- Estimate time and materials for repair jobs.
- Operate a variety of automotive and heavy equipment.
- Prepare, clear, concise and accurate records and reports.
- Read shop and repair manuals.
- Establish and maintain cooperative working relationships.

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:

Three (3) years of experience as a journey level automotive mechanic.

Special Requirements: Possession of a valid and current California Driver's License issued by the Department of Motor Vehicles.