



Equipment Mechanic

Summary

Maintain and repair heavy and light trucks, construction equipment, automobiles, other vehicles, small gasoline engines, stationary equipment and similar equipment; operate a variety of hand, power and shop tools.

Class Characteristics

General supervision is provided by the Public Works Supervisor; responsibilities may include the indirect supervision of support staff.

Essential Duties, Skills, and Demands of the Positions

The duties, skills, and demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with a disability to perform the essential duties, skills, and demands.

Duties:

Diagnose and perform repairs and overhauls to engines, involving inspection and replacement of broken or worn parts.

Diagnose, repair, clean, adjust and install fuel, ignition, electrical and cooling systems involving repair and replacement of such parts as carburetors, fuel pumps, starter motors, distributors, generators, voltage regulators, wiring, switches, batteries, radiators, thermostats, and water pumps.

Diagnose and repair transmission systems including clutches, differential units, front and rear axles, gears, bearings, universal joints, and hydraulic units.

Diagnose, repair, and adjust steering mechanisms and other controls.

Road tests vehicles; drive trucks or equipment as required; inspect vehicles in the shop and field.

Diagnose engine electronic computer units using a diagnostic scope; diagnose and perform electrical, hydraulic, and other repairs in the shop or field.

Fabricate and install parts using gas and arc welding equipment.

Perform preventive maintenance work on construction equipment, heavy trucks, automobiles, light trucks, and other vehicles, and equipment.

Read and interpret manuals, drawings, and specifications; estimate labor, material and equipment, and orders parts required to complete assignments.

Maintain and repair small gasoline engines and similar equipment found on mowers and chain saws.

Make oral and written reports of work performed; complete forms and keep accurate maintenance records.

Diagnose, repair, and maintain vehicle air brakes, hydraulic systems, and associated power take-off equipment.

Modify and fabricate new parts for truck bodies and similar equipment.

Install and repair power take-off equipment such as small electric cranes, hoists, and small hydraulic lift equipment.

Remove, repair, and replace wheels and tires; use and maintain a full set of hand, power, and shop tools and equipment related to the work.

Observe safe work methods and utilize safety equipment related to the work.

Perform related duties as assigned.

Skills/Abilities:

Diagnose and repair a wide variety of diesel and gasoline-powered vehicles and equipment.

Estimate necessary materials and equipment to complete assignments.

Exercise independent judgment and initiative without close supervision.

Operate and maintain a variety of hand, power, shop tools, and equipment used in the work.

Understanding and following oral and written instructions

Prepare basic records and reports.

Read and interpret manuals, specifications, and drawings.

Communicate effectively both verbally and in writing.

Establish and maintain effective working relationships with those contacted in the course of the work.

Physical Demands and Work Environment:

While performing the duties of this job, the employee is regularly required to use hands to finger, handle, or feel; reach with hands and arms; and talk or hear. The employee frequently is required to stand, walk, and sit. The employee is occasionally required to climb or balance; stoop, kneel, crouch, crawl; and smell. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception, and ability to adjust focus. The employee must be able to perform heavy physical labor, including having sufficient strength to lift and carry tools and materials weighing up to 90 pounds. While performing the duties of this job the employee is occasionally exposed to outside weather conditions, wet and/or humid conditions, moving mechanical parts, fumes or airborne particles, toxic or caustic chemicals, and vibration. The noise level in the work environment may be moderate to loud depending on working conditions.

Qualifications

Knowledge of:

Methods, techniques, parts, tools and materials used in the maintenance and repair of diesel and gasoline-powered vehicles.

Operation and maintenance of a wide variety of hand, power, shop tools, and equipment common to the field.

Safe work methods and safety regulations pertaining to the work.

Basic mathematics used in the course of the position.

Education and Experience

Any combination equivalent to the education and experience likely to provide the required knowledge and abilities would be qualifying. A typical way to gain such knowledge and abilities would be:

Education

Equivalent to graduation from high school.

Experience

Two years of journey level experience in the maintenance and repair of vehicles and/or heavy construction equipment. Completion of a recognized apprenticeship in repair of vehicles or equipment is highly desirable.

Certificates/Licenses:

Possession of a valid California Class C driver's license.

Positions in these classifications are subject to drug and alcohol testing (DOT) pursuant to Federal Law.

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