

CLASS SPECIFICATION

Yuba County

January 2007

CLASS TITLE: Heavy Equipment Mechanic

FLSA STATUS: Non-exempt

JOB SUMMARY:

Under general supervision, maintains, repairs and overhauls automobiles, heavy and light trucks, heavy and light construction equipment, other vehicles, small gasoline engines and similar equipment; operates a variety of hand, power and shop tools and performs related work as assigned.

CLASS CHARACTERISTICS:

This is the skilled journey level in this equipment maintenance trade capable of independently performing the full range of maintenance and repair duties on a wide variety of vehicles and equipment. These positions require specialized knowledge, skills, and experience in equipment maintenance and may be required to assign work and/or provide direction to subordinate staff and/or less experienced workers. It is distinguished from Supervising Mechanic in that the latter performs the more complex diagnosis and engine repair functions, in addition to, the supervision and work review of a small group of vehicle and heavy equipment repair staff.

EXAMPLES OF DUTIES:

Essential:

- Diagnoses and performs major repairs and overhauls to both gasoline and diesel engines; inspects and replaces broken or worn parts such as pistons, piston rings, valves, bearings, fittings and gaskets.
- Diagnoses and repairs, cleans, adjusts and installs fuel, ignition, electrical, electronic and cooling systems; repairs and replaces fuel and water pumps, starter motors, distributors, generators, wiring, switches, batteries, and radiators.
- Repairs and overhauls power transmission systems.
- Diagnoses, repairs and adjusts steering mechanisms.
- Diagnoses and performs electrical, hydraulic and other repairs in the field.
- Diagnoses, repairs and maintains vehicle air and hydraulic brake systems, hydraulic systems and associated power take-off equipment.
- Installs and tests electrical systems in vehicles as necessary; modifies such systems as required.
- Performs preventive maintenance work on construction equipment, heavy trucks, street sweepers, automobiles, light trucks and other equipment.
- Reads and interprets manuals, drawings, and specifications; estimates labor, material and equipment and specifies parts required to complete assignments.
- Uses welding equipment to fabricate and repair parts and equipment.
- Observes safe work methods and utilizes hoists and safety equipment related to the work.
- Uses and performs minor maintenance on hand, power and shop tools and test equipment related to the work.
- Makes oral and written reports of work performed; completes forms and maintains accurate maintenance records.

QUALIFICATIONS:

Knowledge of:

Methods, techniques, parts, tools and materials used in the maintenance and repair of gasoline- and diesel-powered automobiles, trucks and construction equipment.
Automotive servicing, preventive maintenance and basic repair principles and practices.
Basic operating principles of gasoline and diesel engines and standard and automatic transmissions.
Operation and maintenance of a wide variety of hand, power and shop tools and equipment common to the field.
Basic job estimation.
Hand and power tools used in the work.
Safe work methods and safety regulations pertaining to the work.
Shop mathematics.
Basic computer applications related to the work.
Record keeping practices.

Skill in:

Servicing and performing preventive maintenance and repair for a variety of fleet vehicles and construction equipment.
Diagnosing and repairing a wide variety of diesel- and gasoline-powered vehicles and equipment.
Operating and maintaining a variety of hand, power and shop tools and equipment used in the work.
Estimating necessary materials and equipment to complete assignments.
Using the hand and power tools of the work skillfully and safely.
Preparing records and reports of work performed.
Reading and interpreting manuals, specifications and drawings.
Establishing and maintaining effective working relationships with those encountered in the course of the work.
Using initiative and independent judgment within established procedural guidelines.

Physical Demands:

- Mobility to work in a typical shop or related maintenance setting, including operating typical trade test equipment, hand and power tools and standard office equipment.
- Stamina to stand, walk and climb and to work in confined or awkward spaces for an extended period of time.
- Strength to lift and maneuver materials and equipment weighing up to 70 pounds with proper equipment.
- Vision to read printed materials; and a computer screen for prolonged periods of time.
- Hearing and speech to communicate in person or over a radio or telephone.

Accommodation may be made for some of these physical demands for otherwise qualified individuals who require and request such accommodation.

Working Conditions:

- Work extended shifts or be called back in emergency situations.
- Work with exposure to potentially hazardous fuels, oils and solvents.
- Provide hand/power tools to perform repair tasks as required by the County to perform the work.

Licensing and Certification:

- Possess a valid California Class C driver's license.

Background: The minimum and preferred requirements for this position are described below:

Minimum: Equivalent to graduation from high school and two years of journey-level experience in the maintenance and repair of vehicles and/or heavy construction equipment. Must possess a California Class C driver's license.

Preferred: In addition to the above, possession of a California Class A or B driver's license, some technical school training in automotive maintenance and repair and three additional years of journey-level experience as indicated above. Additional years of journey level experience may substitute for education on two years of experience for one year of education basis.

This class specification lists the major duties and requirements of the job. Incumbent(s) may be expected to perform job-related duties other than those contained in this document.