

EL DORADO IRRIGATION DISTRICT
Class Specification

CLASS TITLE: Heavy Equipment Mechanic

DEFINITION

Under general supervision performs skilled work in the maintenance, repair, and overhaul of a variety of District automotive, heavy construction equipment and related mechanical equipment, including generators; diagnoses and troubleshoots mechanical/operating problems; and works in a shop environment and makes emergency repairs in the field.

DISTINGUISHING CHARACTERISTICS

This is the journey level class. Employees within this class perform the full range of duties as assigned including diagnosis and repair of mechanical, electrical, and hydraulic failures in automotive and heavy construction equipment and generators. Employees at this level receive only occasional instruction or assistance as new or unusual situations arise, and are fully aware of the operating procedures and policies of the work unit.

This class is distinguished from the Senior Heavy Equipment Mechanic in that the latter performs the most difficult and responsible types of duties assigned to classes within this series and provides technical and functional supervision over assigned staff.

SUPERVISION RECEIVED AND EXERCISED

Receives general supervision from a higher level supervisor or manager; receives technical and functional supervision from the Senior Heavy Equipment Mechanic.

EXAMPLES OF ESSENTIAL DUTIES: *the duties specified below are representative of the range of duties assigned to this class and are not intended to be an inclusive list.*

Diagnoses mechanical, electrical, and hydraulic failures or problems related to the operation of a variety of vehicles, heavy construction equipment, generators, or related mechanical equipment; uses visual inspection or electronic testing instruments.

Maintains, repairs, or replaces a variety of mechanical components, including steering, suspension, drivelines, axles, engines, chassis, air conditioning systems, brake, anti-lock braking systems and air brakes, exhaust systems, and interior and exterior body parts.

Inspects and services air pollution control devices; performs emission control testing and related certifications; inspects vehicles and equipment relative to conformance with other regulatory and certification requirements.

Maintains current knowledge of Federal and State Vehicle code regulations.

Responds to field service requests, including road calls, vehicle recovery situations, and accidents involving District vehicles and equipment; responds to a variety of system facilities requests for mechanical repair.

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Follows a preventive maintenance schedule and responds to work order service requests; tunes engines, takes compression tests, cleans or replaces distributor points; adjusts timing and valves; adjusts, rebuilds and replaces carburetors and fuel injection systems.

Keeps and maintains logs of work performed and enters data into a computerized facilities maintenance database system; completes required regulatory forms for compliance with State reporting mandates; assists with inventory maintenance and ordering of supplies and materials; stocks utility truck with parts and supplies needed to meet regular and emergency work assignments.

Road tests vehicles and equipment; repairs, rotates, and balances tires, changes oil and performs other routine vehicle and equipment work; maintains shop equipment in working order; cleans work and storage areas.

Builds and maintains positive working relationships with co-workers, other District employees and the public using principles of good customer service.

Performs related duties as assigned.

QUALIFICATIONS

Knowledge of:

Principles and practices related to the operation, maintenance, and repair of a variety of gasoline, diesel, propane, and alternative fuel sources for vehicles, heavy construction equipment, generators, and related equipment. Manual and electronic methods used in diagnosing mechanical problems/failures; pollution control OBD II, TAS, Tier I and Tier II test equipment and engine control diagnostic testing procedures. Preventive maintenance inspection methods. Pertinent local, State, and Federal rules and regulations.

Skill/Ability to:

Perform skilled work in the maintenance, repair, and overhaul of a variety of District vehicles, heavy construction equipment, generators, and related mechanical equipment. Diagnose various vehicle and heavy equipment operating problems, including noises, vibrations, surges, pulsations, handling conditions, differential and drive train components and fuel systems. Use a variety of hand and power tools and electronic testing instruments and systems. Perform emission control testing and vehicle/equipment certification. Prepare basic records and reports. Read and interpret manuals, specifications, drawings, and blueprints. Use shop mathematics to make calculations. Ability to maintain reliable attendance is a condition of employment, subject to applicable medical and disability leave laws. Establish and maintain effective working relationships with those contacted in the course of work. Communicate clearly and concisely, both orally and in writing. On a continuous basis, know and understand operations, and observe safety rules; analyze problem equipment; identify and locate equipment; interpret work orders; remember how to properly repair equipment; and explain jobs to others. Intermittently, sit while studying or preparing reports; bend, squat, climb, kneel and twist when performing installation/repair of equipment; perform simple and power grasping, pushing, pulling, and fine manipulation; and lift or carry weight of 25 pounds or less.

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Experience and/or Education:

Any combination of experience and training that would provide the required knowledge and abilities is qualifying. A typical way to obtain the required knowledge and abilities would be:

Experience:

Two years of responsible experience in the repair and maintenance of gasoline and diesel automotive, truck, and other power-driven and hydraulic equipment.

Education:


Equivalent to the completion of the twelfth grade.

SPECIAL QUALIFICATIONS

License and Certificate:

Possession of, or ability to obtain, a valid California Class A driver's license. Individuals who do not meet this requirement due to physical disability will be reviewed on a case-by-case basis.

Possession of California Smog Check Technician certificate.

 _____ Human Resources Authority	<u>04/15/2017</u> Date
Established: 08/18/2009 Revised: 04/15/2017 FLSA: Non-Exempt Unit: Safety	