

Ironhouse Sanitary District

SENIOR VEHICLE AND HEAVY EQUIPMENT MECHANIC

DEFINITION

Under supervision of the Collections Superintendent, troubleshoots and prioritizes problems; performs skilled duties in inspection, maintenance, repair and overhaul of District vehicles and heavy equipment used in the construction and maintenance of wastewater collection systems and levees; performs work on automobiles, light, medium and heavy trucks, construction, farming and related field equipment; performs welding and fabrication work assignments in the installation, alteration, repair and construction of miscellaneous District facilities, equipment and appurtenances; provides direction and work instruction to less experienced or subordinate staff, and performs other duties as assigned.

SUPERVISION RECEIVED AND EXERCISED

General supervision is given by the Collections Superintendent, with input from District Supervisors. Technical direction and training may be provided to less experienced or subordinate staff.

CLASS CHARACTERISTICS

This advanced, journey-level class in the Vehicle and Heavy Equipment Mechanic series that participates in all activities required to ensure smooth and efficient operations. Responsibilities include performing work in all geographical locations, depending upon the immediate needs of the District.

EXAMPLES OF DUTIES (Illustrative Only)

- Acts as crew leader on a project basis; instructs, oversees and reviews the work of less experienced staff.
- Oversees or performs maintenance and repair activities of the District's vehicles and equipment.
- Ensures that adequate materials and supplies are available for work.
- Maintains accurate records of work performed.
- Performs other duties as assigned.
- Oversees or performs repairs and maintenance of heavy equipment, such as back hoes, dump trucks, farming equipment and vehicles, equipment trailers, hydro cleaning equipment, TV trucks and other District vehicles and trucks.
- Oversees or performs, inspections, diagnoses and major repair and overhaul work on gasoline and diesel engines; installs new or repaired engines, and motors aligning them with machinery components.
- Oversees or performs repairs, modifications and overhauls of reduction gears, hydraulic systems, braking systems, steering systems, suspension systems, cooling systems, electrical systems and similar units.
- Ensures improvements required for equipment chassis drive trains, hydraulic systems etc. to meet District operating and safety requirements; modifies equipment and fabricates parts as needed for those requirements.
- Uses gas or arc welding equipment to cut, heat, weld or braze.
- Reads and interprets mechanical drawings, specifications, shop manuals and other documentation.
- Operates trucks, automobiles and a variety of heavy construction equipment incidentally in the performance of the work.

- Confers with maintenance staff and Supervisors to determine equipment problems; suggests methods of minimizing such problems; makes emergency repairs in the field; recommends shutdown of equipment that appears unsafe.
- Identifies which parts, materials and supplies are needed to perform work, and orders same as necessary.
- Maintains accurate records and files of work performed and materials and supplies used.
- Produces required reports on work performed.
- May direct the work of and instruct other employees in work and safety procedures.
- May assist collection system maintenance and/or reclamation staff with maintenance and repair duties.
- Performs other duties as assigned.

QUALIFICATIONS

Knowledge of:

- Basic supervisory principles and practices, including training staff in work procedures.
- Safety practices related to work.
- Computer applications related to work.
- Methods, tools and testing equipment used in the maintenance and repair of District vehicles and medium to heavy construction equipment, such as scanning tools.
- Techniques for troubleshooting complex equipment and/or electrical problems and estimating time, equipment and materials to effect repairs.
- Use and maintenance of a variety of hand and power tools related to the work.
- Principles and practices of arc and gas welding, and oxygen acetylene cutting.
- Occupational hazards and safety precautions related to job assignments.
- Applicable laws, codes and regulations.
- Basic computer applications related to the work.
- Practices of record keeping and standard office procedures.
- Techniques for providing a high level of customer service to public and District staff, in person and over the telephone.

Skill in:

- Serving as Lead and instructing others in work procedures.
- Performing skilled work for the implementation of a comprehensive preventive and corrective maintenance and repair program for vehicles and medium and heavy equipment used in the construction and maintenance of wastewater collection systems and related facilities, as well as vehicles and equipment used for levee maintenance and repair and farming.
- Skillfully and safely using and performing maintenance and repair on a variety of hand and power tools and equipment required to perform the work.
- Performing a variety of technical support fabricating and design duties.
- Troubleshooting equipment problems and estimating materials, supplies and time required to complete the work.
- Reading and interpreting sketches, blueprints, schematic diagrams and equipment manuals.
- Recognizing potentially hazardous conditions on the job site or with the equipment.
- Interpreting and explaining laws, regulations, policies and procedures.
- Making accurate mathematical calculations.
- Prioritizing own work and using independent judgment within procedural guidelines.
- Maintaining accurate records of work performed.
- Establishing and maintaining effective working relationships with those contacted in the course of work.

Education and Experience:

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

Equivalent to graduation from high school and six years of experience in installation, maintenance and repair work of vehicles and heavy equipment similar to those used in the construction and maintenance of wastewater collection and levee systems, as well as farming. Supplemental technical school coursework in the fields of mechanical stationary and/or rolling stock installation, maintenance and repair is highly desirable.

Licenses and Certifications:

Must possess a valid California Class A with tanker endorsement driver's license and have a satisfactory driving record. ASE (A1-8) Certification required, ASE L-1 and Welding Certification highly desirable.

Physical Demands:

Must possess mobility to work in a standard office, shop, and field settings and use standard office equipment, including a computer; mobility to inspect various vehicles and medium to heavy equipment in various District locations; physical stamina and dexterity to perform vehicle and medium to heavy equipment repair work, work on uneven terrain and lift and carry equipment and materials weighing up to 50 pounds; vision to read printed materials and a computer screen and hearing and speech to communicate in person, over the telephone and a two-way radio.

Other Requirements:

Regular standby for response to off-hours emergency situations may be required. The work requires outside exposure to all weather conditions with dust, noise, traffic, some potentially hazardous materials, and electrical and heavy equipment.

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