

Oro Loma Sanitary District
2600 Grant Avenue
San Lorenzo, CA 94580
(510) 276-4700

Updated: 02/11/04

MECHANIC II

DEFINITION

Under general supervision of the Supervisor of Plant Maintenance, to perform skilled mechanical work in repairing and installing equipment and machinery at the water pollution control plant, District pump stations and other District owned or operated facilities.

SUPERVISION EXERCISED

Exercises technical and functional direction over lower classifications in the department.

IMPORTANT AND ESSENTIAL DUTIES

1. Lubricate equipment and check for malfunctions.
2. Adjust or replace packing in pumps or valves.
3. Replace bearings in pumps, motors and other equipment.
4. Perform plumbing and pipefitting tasks as required.
5. Use gas and/or welding equipment to heat, cut, braze or weld.
6. Install and start new equipment.
7. Direct, instruct, and inspect the work of lower classifications for the proper performance of maintenance work or repairs.
8. Repair, overhaul, or replace damaged or worn parts, materials and equipment.
9. Perform preventative and general maintenance and repairs on buildings, structures and grounds owned and/or operated by the District.
10. Operate, clean, service, maintain and paint equipment, machinery, vehicles, structures, buildings, pipelines, storage tanks and any additional items found in a wastewater treatment facility.
11. Service and adjust engines, motors, pumps, valves, control systems, boilers, heat exchangers and chemical feed systems.
12. Respond to emergency situations.
13. Inspect, diagnose and locate mechanical difficulties on District automobiles, trucks, and a variety of diesel and gasoline-powered equipment.
14. Perform all tasks in a safe manner, observing all safety regulations in the performance of assigned duties.

15. Keep maintenance records as required.
16. Perform other related duties as required.

JOB RELATED AND ESSENTIAL QUALIFICATIONS

Knowledge of:

- Installation, operation and repair principles and practices of pumps, motors, generators, engines and related equipment.
- Operational characteristics of mechanical and hydraulic equipment found in wastewater treatment and pumping facilities.
- Repair and preventative maintenance techniques and procedures.
- Tools and equipment used in the maintenance and repair of wastewater treatment and pumping facilities.
- Safe work practices and policies.
- Basic mathematics.
- Wastewater treatment processes.

Skill to:

- Operate tools and materials involved in the installation, maintenance and repair of mechanical and electrical equipment.
- Operate a variety of vehicular and stationary mechanical equipment in a safe and effective manner.
- Operate a motor vehicle safely.

Ability to:

- Meet respiratory requirements and use self-contained breathing apparatus (SCBA) when necessary in accordance with the District's Standard Procedure No. I.E.13.
- Install, operate and repair pumps, motors, generators, engines and related equipment.
- Perform the full range of skilled maintenance and repair work related to wastewater treatment and pumping equipment and facilities.
- Read, understand and work from blueprints, diagrams and installation sketches.
- Diagnose and repair mechanical and electrical defects.
- Understand and follow written and oral direction.
- Work independently in the absence of supervision.
- Prepare records and reports.

- Direct the work of others.
- Communicate clearly and concisely, both orally and in writing.
- Establish, maintain, and foster positive and harmonious working relationships with those contacted in the course of work.

EXPERIENCE AND EDUCATION GUIDELINES

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

Experience:

Three years of experience in the operation and maintenance of mechanical and electro-mechanical equipment used in a treatment plant, pump station or similar facility.

Training:

Equivalent to the completion of the twelfth grade, supplemented by training in plant mechanics.

License or Certificate:

Possession of, or ability to obtain, a valid California driver's license from the California Department of Motor Vehicles, and a DMV record which meets the District's Driving Standards.

Possession of, or ability to obtain, within two years of appointment, a Grade II Certificate in Mechanical Technology issued by the California Water Environment Association (CWEA).

WORK ENVIRONMENT/PHYSICAL DEMANDS

The work environment characteristics are representative of those an employee encounters while performing the essential functions of this job. The physical demands are representative of those that must be met by an employee to successfully perform the essential functions of the job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is frequently required to stand; sit; walk; use hands to finger, handle, or feel; reach with hands and arms; climb or balance; stoop, kneel, crouch, twist, squat or crawl; and talk or hear. Climbing may involve tall ladders, scaffolds, steep stairways, open ditches and deep manholes. The employee must frequently lift and/or move up to 50 pounds and occasionally lift and/or move up to 75 pounds. Specific vision abilities required by this job include close vision, distance vision, depth perception, and ability to adjust focus and distinguish colors.

Additionally, the employee is frequently exposed to outside weather conditions. The employee is periodically exposed to confined spaces; fumes, dust or airborne particles; domestic waste, toxic or caustic chemicals; extreme cold; extreme heat; electrical and mechanical hazards; and explosive materials. Employees in this classification may perform duties that involve a potential risk of exposure to blood borne pathogens. In addition, employees use power and noise producing tools and equipment. The noise level in the work environment is usually loud.

Effective Date: April 1993

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