

**CITY OF SALEM  
PUBLIC WORKS MAINTENANCE TECHNICIAN**

**00521**

**NATURE OF WORK**

This is skilled maintenance, and repair work in the operation of water and wastewater municipal facilities.

Work involves performance of scheduled and emergency maintenance activities of pumps, motors, flow monitoring, electrical, electronic or mechanical systems of municipal facilities particularly related to utility pump and lift stations. Work requires considerable understanding of the purpose, function and operating systems to which the position is assigned. Work is performed under close supervision for nonroutine tasks with opportunity for some independence as experience is gained. Work direction may be given to others in the completion of assigned duties.

This classification is distinguished from the Maintenance Project Leader by the requirement for a technical knowledge related to pumps, motors, electrical and electronic components. This classification is distinguished from the Systems Technician by the focus on the pumps and motors and mechanical portion of the system rather than the electronic components.

**ILLUSTRATIVE EXAMPLES OF WORK**

(Any single position of a class will not usually involve all of the duties listed and many positions will involve duties which are not listed.)

Maintains and repairs the pumps and related electrical controls at water pumping stations, sewage pumping stations, wells, reservoirs, flow monitoring stations and other municipal facilities.

Installs, calibrates, tests, and repairs electrical, pneumatic, and electronic control devices at various city facilities for centralized monitoring of facility operations and the collection of field data for computerization. Cleans, inventories and maintains specialized maintenance tools and equipment parts and supplies. Makes minor repairs and recommends when to refer repair to manufacturer.

Assists in the maintenance of municipal buildings, structures, and grounds. Maintains, repairs, and operates heating, air conditioning, compressed air, ventilating and other mechanical systems of municipal buildings according to standard and special instructions.

Provides work direction to others as required.

Enters collected data into personal computer and may program PLC ladder logic using portable computer. After experience is gained, identifies unusual readings from data and reports significant or unusual readings to supervisor.

Performs other related work as required.

**WORK QUALIFICATIONS**

Considerable experience in the maintenance and repair of buildings and/or mechanical equipment systems; graduation from high school, supplemented by the completion of technical courses in pump and motor repair, and basic electricity and electronics or related subjects to the position being filled or any equivalent combination of experience and training which provides the following knowledges, skills, and abilities:

Considerable knowledge of the methods, materials, and tools used in the repair and maintenance of a modern pump or lift utility station.

Knowledge of the occupational hazards and proper safety precautions of the work.

Knowledge of hydraulics, including principles of operation of a variety of pumps and flow monitoring devices and factors effecting their performance.

Ability to operate and use the testing equipment and controls installed for the proper functioning of the systems.

Ability to learn the characteristics and detailed specifications of the systems of the building complex and pumping station facilities.

Ability to read blueprints, drawings, and schematics.

Ability to recognize and diagnose malfunctioning equipment and controls.

Ability to read and interpret control systems diagrams.

Ability to obtain an Oregon Limited Maintenance Electrical License within six month's of appointment if required by the nature of the assigned duties.

Ability to work in confined areas.

Ability to perform general building maintenance duties.

Physical strength and agility sufficient to do strenuous labor tasks under varying weather conditions, and lift cumbersome or heavy objects.

Possession of a valid Oregon Class C driver's license and the ability to meet City driving standards.

Possession of First Aid or CPR certification is desirable.

Work is primarily performed outdoors in varying types of weather and routinely calls for weekend duty on a rotating shift and call out during emergency conditions. Work requires sufficient physical stamina to climb up and down into subterrain utility stations, climb up

heights to pump stations, and maneuver around operating equipment. Work includes exposure to noise, fumes, dust, chemicals and unsanitary conditions with safety precautions. Work involves sufficient sensory perceptions to identify heat, noise, fumes and other factors indicative to operational irregularities with equipment and systems being maintained.

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Personnel Director

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