

CITY OF SALEM
WASTEWATER TREATMENT PLANT TECHNICIAN I

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NATURE OF WORK

This is skilled work in the operation and maintenance of a large, complex wastewater treatment plant.

Work involves performing preventative maintenance, installation, overhaul, and repair of mechanical equipment and electrical control systems. Maintains buildings, structures, and grounds. Assignments are received in the form of oral or written instructions, sketches, or blueprints although work may result from inspection and troubleshooting. Work is ordinarily performed independently, subject to inspection in process or upon completion by a supervisor or lead worker.

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.)

Lubricates equipment and checks for malfunctions on a regular schedule as recommended in the Operation and Maintenance Manual. Removes, overhauls, and reinstalls pumps, motors, compressors, gear boxes, chlorinators, chlorine evaporators, and other equipment. Performs routine overhaul and maintenance work on oxygen generation equipment. Replaces bearings in pumps, motors, and other equipment. Installs and replaces piping and performs other plumbing and pipe fitting tasks as required. Uses gas and/or arch welding equipment to heat, cut, braze, or weld. Sets up and installs new equipment.

Maintains and repairs conduits, wires, alarms, motors, switches, control panels, and circuit breakers required in making additions, extensions, or alterations in electrical systems. Repairs and replaces defective parts in motors, clocks, generators, pumps, switches, alarms, transformers, and other electrical fixtures and appliances; maintains diesel generators. Tests, locates, and repairs electrical problems in electrical circuits and equipment.

Maintains accurate maintenance records of equipment and apparatus serviced.

Performs general maintenance and repair tasks on buildings, structures, and grounds.

Performs other related work as required.

WORK QUALIFICATIONS

Considerable experience as a maintenance electrician or in wastewater treatment plant operation, maintenance, or repair; graduation from high school supplemented by courses in the electrical or mechanical trade or any equivalent combination of experience and training which provides the following knowledges, skills, and abilities:

Considerable knowledge of the operational systems, electrical, and mechanical equipment in a wastewater treatment facility.

Considerable knowledge of hydraulics, including principles of operation of all types of pumps and factors affecting performance.

Knowledge of the occupational hazards involved and safety precautions of the mechanical and electrical trade.

Knowledge of the standard practices, materials, tools, and equipment of the electrical trade.

Considerable ability to understand and follow oral and written instructions and to read and interpret blueprints, sketches, and diagrams.

Considerable ability to work independently to accomplish work assignments.

Ability to recognize, diagnose, and adjust malfunctioning equipment and defects in electrical systems.

Skill in the use and care of standard tools employed in the repair of mechanical equipment.

Ability to obtain an Oregon Limited Journeyman Manufacturing Plant License if required by the nature of the assigned duties.

Possession of a valid Oregon Driver's License or Class 4 License and the ability to meet the City's driving standards.

Personnel Director