

CITY OF SALEM
WASTEWATER TREATMENT PLANT TECHNICIAN II

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NATURE OF WORK

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

Work involves scheduling and directing others as well as performing preventative maintenance, installation, overhaul, and repair of mechanical equipment, electrical control systems, buildings, structures, and grounds. Assignments given to others are through oral or written instructions, sketches, or blueprints although work may result from inspection and troubleshooting. Assignments are received in the form of overall objectives as well as specific assignments. Work is ordinarily performed independently, subject to inspection in process or upon completion by a supervisor. Work direction of others as a lead worker is expected of this class but full supervision of others is not normally required.

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.)

Meets with supervisor to identify operation maintenance priorities. Trains other technicians in repair and maintenance of equipment and facilities. Assigns and schedules work of other technicians based on set priorities and through personal inspection of equipment and facilities. Periodically inspects and monitors work of other technicians.

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 arc 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, time records of technicians and other related records systems.

Performs other related work as required.

WORK QUALIFICATIONS

Considerable experience as a maintenance electrician or in wastewater treatment plant maintenance or repair including some lead work; 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 and skill in the use and care of standard tools employed in the repair of mechanical equipment.

Considerable ability to plan, assign and monitor work performed by others and work independently to accomplish work assignments.

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

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

Ability to obtain an Oregon Maintenance Electrical License if required by the nature of the assigned duties.

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

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Personnel Director

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