

THE LINDEN ROSELLE SEWERAGE AUTHORITY
MAINTENANCE MECHANIC
JOB DESCRIPTION

General Statement of Duties

Performs the inspection, overhaul, repair, testing, maintenance, and operation of a wide variety of mechanical and electrical equipment. Implements maintenance and preventive maintenance procedures. Recommends and implements improvements and modifications to plant machinery and equipment. Performs tasks requiring some specialized skill or knowledge relating to the maintenance or operations of the treatment plant and related facilities. Works in accordance with established LRSA work and safety practices. Performs related and other duties as assigned.

Supervision Received

Works under the direct supervision of the Maintenance Foreman.

Supervision Exercised

Supervises one or more Maintenance Mechanic Apprentices, Laborers, or other workers, assigned as helpers.

Examples of Duties

- ◆ Performs the rebuilding and maintenance of flights, chains, belts, sprockets, shafts, bearings and rails of sludge, grit, scum collecting and conveying systems as used in sedimentation tanks and mechanically cleaned bar screens and other plant processes.
- ◆ Overhauls pumps; renews pump components, repacks stuffing boxes, replaces shafts, bearings, couplings and packings.
- ◆ Cleans, overhauls and maintains pumps, chlorination equipment and telescoping sludge valves; renews ball bearings, lubricant seals and retainers; overhauls motor reduction gears, renews internal parts as directed.
- ◆ Cleans, overhauls and maintains chemical feed equipment; eductors, vibratory feeders, mixers, rotary gate valves, and chemical solution feed pumps.
- ◆ Overhauls, removes and maintains shaft type couplings as well as pneumatic members, rubber busings and spiders, in an approved manner.
- ◆ Assists in overhaul and maintenance of auxiliary and emergency engines; changes lubricants and filters at scheduled intervals; renews internal shafts, gears, bearings, bushings, retainers and seals as directed.
- ◆ Maintains and repairs gas and air compressors, reduction gears, boilers, oil and gas burners, chlorine feeding equipment, valves, heat exchangers, centrifugal pumps, air or gas storage tanks, portable gasoline engine powered pumps, compressors and welders.
- ◆ Performs gas and electric welding.
- ◆ Operates machine shop equipment to rebuild or replace equipment parts.
- ◆ Maintains plant automotive, truck and snowplow equipment.
- ◆ Participates in in-plant and out-of-plant operations and maintenance activities.

- ◆ May work on a snow removal team.
- ◆ May perform minor carpentry work.
- ◆ May erect and work from scaffolding and ladders.
- ◆ Performs other duties as assigned by the supervisor.

Entrance Requirements

- ◆ A minimum of five (5) year's training and experience in the maintenance and repair of heavy mechanical equipment as used in a wastewater treatment plant.
- ◆ Must have served an 8,000-hour state approved mechanical apprenticeship program or equivalent.
- ◆ Considerable knowledge of the occupational hazards and safety precautions pertaining to all phases of wastewater treatment plant maintenance.
- ◆ Must be able to read blueprints, use micrometers, verniers, indicators and other machine shop related tools.
- ◆ Must be able to operate machine shop equipment including lathes, milling machine and other standard machine shop tools.

Special Qualifications, Knowledge and Abilities

- ◆ A career-minded interest in the maintenance and repair of mechanical and electrical equipment.
- ◆ Working knowledge of safe standard methods and practices for maintaining and repairing machinery.
- ◆ Considerable knowledge of the proper use of hand and power tools.
- ◆ Ability to learn to perform orderly disassembly and reassembly of complex precision machinery and components.
- ◆ Ability to properly supervise others assigned as helpers.
- ◆ Strength and agility necessary to maintain and repair heavy crude machinery.
- ◆ Ability to use oxygen-acetylene welding and burning equipment.
- ◆ Knowledge of rigging, hoisting and tackle procedures.
- ◆ Must be reliable, thorough, dependable with the ability to work both independently and as part of a team.
- ◆ Must present neat, courteous and professional appearance and attitude at all times.
- ◆ Must receive directions well and be willing to learn.
- ◆ Ability to successfully carry out detailed oral and written instructions.
- ◆ Must be thoroughly safety conscious when performing duties.
- ◆ Must possess a valid driver's license and a safe driving record.
- ◆ Must be self-motivated.