

The Linden Roselle Sewerage Authority

ELECTRICIAN Job Description

DEFINITION:

Electrician is responsible for performing skilled journey level electrical and instrumentation maintenance work that involves. Under direction varied types of work involved in the installation, inspection, repair, servicing, and maintenance of electrical equipment, appliances, machinery, and circuits; does related work as required.

An employee in this classification develop and implements a proactive maintenance work program that includes preventative and predictive maintenance, corrective maintenance and equipment condition monitoring on a variety of instrumentation equipment, communications equipment, meter, control systems, electrical systems, circuits, and motor controls, associated with wastewater treatment plants and pumping stations.

EXAMPLES OF WORK:

Inspects electrical wiring, fixtures, appliances, motors, generators, pumps, power circuits, and controllers of machines, ascertains the nature of needed repairs and/or replacement; does whatever repair and installation work is necessary.

Installs, maintains, inspects, repairs, and services high- and low-tension power and light feeders, generating and control equipment, relays, transformers, motors, pumps, switches, outlets, signal systems, and other electrical wiring, cables, fixtures, and appliances of varied types.

Oils, greases, and maintains in good working order electrical fixtures, appliances, and other equipment and replaces worn parts.

Uses various types of test equipment such as ammeters, voltmeters, and ohmmeters.

Makes emergency electrical repairs, trouble shoots malfunctions and breakdowns; inspects work in progress and completed work for defects, fire hazards or other unsafe conditions.

Is familiar with the use and nomenclature of various types of conduits and fittings, cables, insulators, and other equipment.

Works from electrical schematics, plans, and specifications in accordance with established procedures.

Requisitions, stores, safeguards, and properly uses electrical equipment, materials, and supplies.

Keeps records of equipment used, work done, and time spent.

May be required to learn to utilize various types of electronic and/or manual recording and information systems used by the Authority.

REQUIREMENTS:

EXPERIENCE:

Graduation from high school or equivalent, two years journey level experience as an electrician in an industrial or manufacturing plant work environment. Supplemental advanced course work in electric theory and industrial controls is desired.

Three (3) years of experience in work involving the installation, inspection, repair, servicing, and maintenance of electrical equipment, appliances, machinery, and circuits.

NOTE: Applicants who do not possess the required experience may substitute a current Electrical Contractor license issued by the New Jersey Department of Consumer Affairs for three (3) years of experience.

Experience with 480-volt equipment, instrumentation and controls, SCADA systems and in conducting maintenance work on motor control, electrical distribution and generating systems is desired.

NOTE: Appointees may be required to pass a colorblindness test.

LICENSE:

Appointees will be required to possess a driver's license valid in New Jersey.

KNOWLEDGE AND ABILITIES:

Knowledge of the problems, equipment, and techniques involved in installing, inspecting, repairing, and maintaining cables, wiring, motors generators, pumps, refrigerators, radios, sound equipment, switchboards, oil machinery, and circuits.

Ability to read and interpret plans, specifications, and diagrams.

Electrical codes regulations and procedures.

Ability to analyze problems involving electrical installation, inspection, maintenance, and repair work, and develop effective work methods.

Ability to install, inspect, repair, and maintain cables, wiring, motor, generators, pumps, refrigerators, radios, sound equipment, oil burners, and other types of electrical equipment, appliances, fixtures, machinery, and circuits under varying circumstances.

Ability to understand, remember, and carry out oral and written directions.

Ability to order, store, safeguard, and properly use equipment, materials and supplies.

Ability to observe the required safety precautions.

Ability to keep simple records of work done, materials used, and time spent.

Ability to learn to utilize various types of electronic and/or manual recording and information systems used by the agency, office, or related units.

Ability to read, write, speak, understand, or communicate in English sufficiently to perform the duties of this position. American Sign Language or Braille may also be considered as acceptable forms of communication.

Persons with mental or physical disabilities are eligible as long as they can perform essential functions of the job with or without reasonable accommodation. If the accommodation cannot be made because it would cause the employer undue hardship, such persons may not be eligible.