

Jurisdictional Class: Competitive
EEO Category: Skilled Craft
Revised: 03/30/2023

WASTEWATER TREATMENT PLANT ELECTRICIAN

DISTINGUISHING FEATURES OF THE CLASS: This position exists in a wastewater treatment plant and involves responsibility for installing, maintaining, and repairing highly technical electrical equipment, including low and medium voltage electrical devices. The incumbent works under the general supervision of the Wastewater Treatment Plant Maintenance Supervisor and Senior Wastewater Treatment Plant Electrician and is allowed considerable leeway in determining work methods and procedures. Supervision may be exercised over the work of helpers assigned to specific projects. The incumbent performs related work as required.

TYPICAL WORK ACTIVITIES: (Illustrative Only)

Installs, repairs and maintains electrical systems and equipment such as power distribution and auxiliary power distribution equipment, heating ventilating and air conditioning equipment, fixtures and lighting equipment, electrical motors and associated controls, switches, variable frequency drives (VFD's), etc.;

Repairs, maintains and installs machinery and equipment throughout the system;

Maintains comprehensive and accurate records of maintenance work performed;

Makes recommendations to superiors relative to changes designed to improve the efficiency of operation and/or devices and equipment for use in the system;

Consults with supervisors and/or manufacturers' representatives on difficult repairs and installation of new or modified equipment;

Maintains and installs equipment at the main wastewater plant and its pumping stations;

May supervise assistants assigned to help with large or complex maintenance and repair jobs.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS: Good knowledge of the operation and function of electrical/electronic devices, as applied to wastewater treatment facilities; thorough knowledge of the principles, practices and theories of low and medium voltage electrical distribution systems and control systems; ability to work from plans, schedules and schematics; ability to follow oral and written instructions; ability to troubleshoot various electrical/electronic devices, including relay/electronic controls and monitoring systems; initiative and resourcefulness in solving mechanical, electrical and electronic problems; ability to get along well with others.

MINIMUM QUALIFICATIONS:

- (A) Possession of Associate's Degree in electrical technology, electronics, or electrical service technology **AND** two (2) years of experience in the installation, maintenance and/or repair of electrical equipment, control systems and/or instrumentation equipment in a public or private; **OR**
- (B) Graduation from high school or possession of a high school equivalency diploma **AND** four (4) years of experience in the installation, maintenance and/or repair of electrical equipment, control systems and/or instrumentation equipment in a public or private.

continued...

SPECIAL REQUIREMENT: Possession of a valid New York State driver's license at time of application. License must remain valid throughout appointment.

NOTES:

1. Verifiable part-time experience as described above will be pro-rated toward meeting full-time experience requirements.
2. Degree(s) must have been awarded by a college or university accredited by a regional, national, or specialized agency recognized as an accrediting agency by the U.S. Department of Education/U.S. Secretary of Education. If the degree was awarded by an educational institution outside the United States and its territories, the candidate must provide independent verification of equivalency. A list of acceptable companies who provide this service can be found on the Internet at <http://www.cs.ny.gov/jobseeker/degrees.cfm>. Candidates will be required to pay the evaluation fee.

Adopted: 08/17/1982

Revised: 07/06/1995; 01/03/2014; 01/15/2020; 10/01/2021