

Jurisdiction: Oneida County  
Jurisdiction Class: Competitive  
Revised: 7/6/95  
(title chg. from "Sewage")

## **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 instrumentation, low and medium voltage electrical devices, and telemetry equipment which is part of the automatic operation of the facility. The incumbent works under the general supervision of the maintenance supervisor, and is allowed considerable leeway in determining work methods and procedures. Supervision may be exercised over the work of helpers assigned to specific projects. Does related work as required.

**TYPICAL WORK ACTIVITIES:** (Illustrative Only)

Installs, repairs and maintains electrical motors and associated controls, switches and alarm systems, laboratory instruments, transformers and other electrical facilities within the system;

Calibrates flow measuring devices, recording instrumentation and monitoring devices; Installs and maintains instrumentation equipment such as flow meters, level and pressure sensors, transmitting receivers, tone equipment, indicators, recorders and chemical sludge feed equipment;

Maintains comprehensive and accurate records of maintenance work performed;

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

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 or manufacturers' representatives on difficult repairs and installation of new or modified equipment.

**FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:**

Thorough knowledge of the operation and function of instrumentation, communication and electrical devices, as applied to wastewater treatment facilities; thorough knowledge of the principles, practices and theories of low and medium voltage electrical distribution systems, rotors and associated control systems; ability to work from plans, schedules and schematics; ability to follow oral and written instructions; ability to troubleshoot various electrical devices, relay logic controls and monitoring systems; initiative and resourcefulness in solving mechanical and electrical problems; ability to get along well with others.

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**MINIMUM QUALIFICATIONS:** Either:

- (A) Graduation from a regionally accredited or NYS registered college or university with an Associate's Degree in electrical technology or electronics **AND** two (2) years of experience as an electrician in a public or private utility, industrial or commercial establishment, which shall have involved maintenance and repair of instrumentation equipment; **OR**
- (B) Graduation from high school or possession of a high school equivalency diploma **AND** four (4) years of experience, as described in (A) above; **OR**
- (C) Six (6) years of experience, as described in (A) above; **OR**
- (D) An equivalent combination of training and experience, as defined by the limits of (A) through (C) above.

**NOTE:** Verifiable part-time experience will be pro-rated toward meeting full-time experience requirements.