

## ELECTRICIAN

DISTINGUISHING FEATURES OF THE CLASS: This is a skilled journeyman level position in the electrical field involving the installation, programming, and maintenance of electrical and instrumentation wiring, control systems, equipment and devices, computers, and programmable controllers, and traffic controller devices. General direction is received from the Director of Public Works concerning tasks to be performed, permitting considerable leeway for the exercise of independent judgment in planning and carrying out the details of the work. General supervision is exercised over the work of various employees who are assigned to assist the electrician. An Electrician does related work as required.

### TYPICAL WORK ACTIVITIES:

- Maintains and repairs motor control centers, vari-drives, motors, circuits, transformers and other electrical appurtenances for single phase and 3 phase, 480 volt services;
- Provides Code Enforcement inspection services;
- Installs and repairs traffic lights and their control systems;
- Calibrates, maintains and repairs electronic instrumentation;
- Installs, maintains and repairs electrical circuits, equipment and devices for power, lighting and electronic instrumentation;
- Performs bench tests of electronic and digital components;
- Tests and maintains panel switchgear, meters, alarm systems, communication systems, automatic timers, signaling units and recorders for power and instrumentation devices;
- Prices, evaluates and prepares requisitions for purchase of new equipment and materials;
- Assists engineering staff in designing electrical projects;
- Trains staff in basic principles of electrical safety and proper inspection practices of electrical tools with regard to safety;
- Programs computer, programmable controllers, and traffic signal controllers;
- Trouble shoot and repair computers and programmable controllers;
- Installs new circuitry;
- Maintains and repairs fire alarm and security systems;
- Programs and maintains Supervisory Control and Data Acquisition Systems (SCADA) at water and wastewater treatment facilities;
- Prepares and maintains appropriate records relating to work activities;
- Instructs subordinates in Federal, State and Department of Public Works and/or City safety regulations and ensures compliance with them;
- Operates aerial bucket truck and conducts annual bucket truck training;
- Provides assistance to other village/county/state departments;
- May respond to emergency calls.

## FULL PERFORMANCE KNOWLEDGE, SKILLS AND ABILITIES:

Thorough knowledge of the common practices, tools, terminology, codes and accident precautions of the trade and electrical safety practices; thorough knowledge of the design, construction, installation, maintenance and repair of electrical instruments, apparatus and equipment; thorough knowledge of the installation and repair of control systems, SCADA systems, and traffic signal systems; good knowledge of electrical theory; good knowledge of power distribution systems; good knowledge of process control equipment; working knowledge of mechanical drawing; skill in the installation and repair of traffic lights and installation and programming of programmable controllers; ability to work from plans, sketches, drawings, detailed and schematic wiring diagrams and specifications; ability to follow oral instructions; ability to plan and cost estimate new electrical projects; ability to lay out and supervise the work of others; initiative, conscientiousness and dependability; good motor and hand and eye coordination; manual dexterity; ingenuity in the construction and repair of special or unusual electrical equipment; physical condition sufficient to perform the essential functions of the position.

*PROMOTION QUALIFICATIONS:* A minimum of two years of permanent competitive service as an Electrician's Assistant.

MINIMUM QUALIFICATIONS: (*Open Competitive*) Graduation from high school or possession of a high school equivalency diploma and either:

- (a) Graduation from a regionally accredited or New York State registered college or trade school with an Associate's degree or higher in electrical engineering or a closely related field; and two (2) years of experience in the electrical trade; or
- (b) Four (4) years of experience in the electrical trade; or
- (c) An equivalent combination of training and experience as defined by the limits of (a) and (b) above.

SPECIAL REQUIREMENT: Must possess and maintain the appropriate level Motor Vehicle Operator's License.

Adopted: 12/15/11