

Jurisdiction: City of Ithaca
Jurisdictional Class: Competitive
Adopted: 04/06/05
Revised: 09/15/10, 05/05/21

ELECTRICAL TECHNICIAN

DISTINGUISHING FEATURES OF THE CLASS: The Electrical Technician is responsible for performing technical electrical work on all City of Ithaca owned buildings, streetlights and traffic signals. The incumbent is responsible for ensuring that all work is performed at the highest level of safety. The incumbent may work independently or as part of a crew to perform basic technical and other tasks not requiring direct oversight. The work is sometimes performed in confined spaces and under potentially hazardous conditions, using appropriate personal protective equipment. The work is performed under the general supervision of the Supervisor of Electrical Services. Does related work as required.

TYPICAL WORK ACTIVITIES:

Installs, maintains and repairs electrical lighting, devices, raceway systems and related hardware;
Assists in the repairs of traffic control systems, including TS1/TS2 traffic controllers, software and related equipment;
Installs, maintains and repairs remote reading and control systems;
Installs, maintains and repairs City owned street lighting systems;
Installs, maintains and repairs low voltage wiring for computer, data, fire alarm, security and telephone equipment;
Under supervision, performs electrical installations, repairs and maintenance involving energized equipment, including utility secondary feeders;
Coordinates and consults with public and private agencies, organizations and professionals, including the NYS Department of Transportation, NYSEG, telecom providers and private contractors;
Orders materials and keeps inventory of electrical supplies;
Operates and maintains a variety of equipment and tools relative to the work;
Performs work in potentially hazardous environments such as confined spaces, inclement weather, heights in excess of 50 feet, and where toxic vapors may be present.

FULL PERFORMANCE KNOWLEDGES, SKILLS, ABILITIES, PERSONAL CHARACTERISTICS:

Good knowledge of electrical lighting systems, alarm systems, and other specialized electrical circuitry; good knowledge of common practices, tools, terminology and safety precautions of the electrical trade; working knowledge of building construction and the common practices, tools, terminology and safety precautions of the construction trades; working knowledge of the geography of the municipality; working knowledge of public works projects and activities; ability to work from plans, specifications and working diagrams and to follow sketches; ability to create and maintain basic records and reports; ability to understand and follow oral and written instructions; ability to establish and maintain effective working relationships with others; ability to perform close, detail work involving considerable visual effort and concentration; ability to successfully work with and serve a diverse local community; willingness to respond to emergency situations; excellent safety record; physical condition commensurate with the demands of the position.

MINIMUM QUALIFICATIONS: Either:

- (a) Graduation from a regionally accredited college or university or one accredited by the New York State Board of Regents to grant degrees with an Associate's degree in electrical or electronic technology or a closely related field; or
- (b) Graduation from high school or possession of a high school equivalency diploma and successful completion of a one-year technical school in the electrical trades; or
- (c) Graduation from high school or possession of a high school equivalency diploma and four (4) years of full-time paid experience, or its part-time paid equivalent, performing electrical construction; or
- (d) An equivalent combination of training and experience as defined by the limits of (a), (b) and (c).

SPECIAL REQUIREMENTS:

1. Candidates must obtain certification as a Work Zone Temporary Traffic Control Technician from the International Municipal Signal Association (IMSA) within twelve (12) months of appointment and must maintain said certification for the duration of employment.
2. Candidates must possess a valid New York State Class D driver license or a valid driver license equivalent to a New York State Class D driver license at the time of appointment and must obtain a New York State Class B Commercial Driver License (CDL) or a valid Commercial Driver License equivalent to a New York State Class B Commercial Driver License within twenty-four (24) months of appointment. Said licenses must be maintained for the duration of employment.