

ELECTRICIAN  
Traffic Systems Technician

Rev. 4/98  
Erie County  
School & T&V  
Non-Comp.  
RAM/a

**DISTINGUISHING FEATURES OF THE CLASS:** The work involves responsibility for performing a wide variety of skilled and difficult work in the installation, maintenance and repair of electrical systems and equipment. General instructions are received regarding what tasks to perform permitting considerable leeway for planning details of each job. Work is performed under the general supervision of an employee of a higher grade who makes assignments and reviews work by inspection and report and direct supervision may be exercised over the work of assigned helpers. Does related work as required.

**TYPICAL WORK ACTIVITIES:**

- Constructs, inspects, tests, maintains and repairs electrical lighting, power, alarm, signal, communication and generating systems for buildings and equipment, including transformers, distribution equipment, controls, motors, lighting fixtures, special electrical equipment, outlets, wiring, etc.;
- Operates power tools such as conduit pipe machines and benders, saws, drills, etc. and hand tools common to the electrical trade;
- Complies with various Occupational Safety and Health Administration laws and regulations, including reading and understanding Material Safety Data Sheets relating to hazardous materials and other substances;
- Plans and lays out work;
- Estimates materials and supplies required;
- Reads and interprets blue prints, specifications and written orders to determine nature of work required;
- Requests materials and supplies;
- Performs related tasks and assists other craftsmen on repair or installation projects.

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

Thorough knowledge of the practices, procedures, tools, terminology and safety precautions of the electrical trade; thorough knowledge of the design, construction, installation, maintenance and repair of electrical instruments, devices and equipment; good knowledge of electrical schematics; ability to work with low potential, high potential and extra high potential electrical circuits; ability to work through sketches, plans and specifications; ability to understand and follow oral and written instructions; ability to get along well with others; mechanical aptitude and manual dexterity; initiative and resourcefulness; industry and dependability; physical condition commensurate with the demands of the position.

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### MINIMUM QUALIFICATIONS:

Graduation from high school or possession of a high school equivalency diploma; and either:

- A) Completion of a four (4) year Electrician apprentice program and one (1) year of experience as a journeyman electrician; or:
- B) Five (5) years of electrical work experience under the direction of a commercial electrical contractor; or:
- C) An equivalent combination of training and experience as defined by the limits of (A), and (B).
- D)

NOTE: Verifiable part-time and/or volunteer experience will be pro-rated toward meeting full time experience requirements.

## Summary of Job Description

As a Traffic Systems Technician, in general, you would program traffic signal controllers, troubleshoot and repair state-of-the-art Intelligent Transportation Systems (ITS) and communication devices, inspect traffic signal systems, perform major modifications, prepare legal documents which define the operations of traffic control devices, review and modify design plans, and maintain a database of repair records and equipment condition.