

## **SIGNAL ELECTRICIAN**

### **DISTINGUISHING FEATURES OF THE CLASS:**

The work involves responsibility for installing and maintaining fire alarm and traffic signal equipment. The incumbent also tests and repairs electro-mechanical and solid-state fire alarm and traffic signal devices. Work is performed under the general direction of the Superintendent of Engineering Services with wide leeway allowed for the exercise of independent judgment in planning and carrying out the duties of the position. Does related work as required.

### **TYPICAL WORK ACTIVITIES:**

Installs and maintains city fire alarm system;

Takes and records daily voltage and current readings at the main fire alarm control panel and adjusts as necessary;

Inspects the stand-by battery power and cleans and maintains the batteries;

Inspects the fire alarm circuits for electrical shorts, overgrown trees, grounding conditions and the working status of individual fire alarm boxes both public and privately owned;

Installs new wiring and removes old wiring on utility poles and in underground conduits;

Provides maintenance information to owners of privately-owned master fire alarm boxes;

Inspects, cleans and paints city-owned fire alarm boxes;

Repairs and maintains central station fire alarm equipment, gongs, and registers;

Maintains and repairs solid state and electro-mechanical traffic control systems;

Installs or replaces traffic control signal devices and associated equipment in conduits, cabinets, wiring and cabling;

Maintains downtown street lighting including relamping, trouble-shooting and installing poles and fixtures;

Operates bucket truck to remove broken and dangerous limbs and hanging banners;

Maintains repair logs for traffic control and fire alarms;

Orders equipment and maintains inventory;

Trims trees near fire alarm wires and traffic signals;

May act as lead worker on projects.

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

Good knowledge of the installation, maintenance and repair of fire alarm and traffic control devices;

Good knowledge of the common practices, tools, terminology and safety precautions of the electrical trade;

Good knowledge of the geography of the city;

Working knowledge of the principles of electricity and electrical signal distribution;

Ability to work from plans, sketches and specifications;

Ability to understand and follow oral and written instructions;

Ability to use tools and equipment of the trade;

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 closely related field and two (2) years of experience in the maintenance and repair of electrical or solid state equipment; or

- (b) Graduation from high school or possession of a high school equivalency diploma and four (4) years of the experience described in (a) above; or
- (c) An equivalent combination of experience and training as defined by the limits of (a) and (b) above.

**SPECIAL REQUIREMENT:** Possession of a valid New York State driver's license appropriate to the vehicles operated or otherwise demonstrate their ability to meet the transportation needs of the job.