

Jurisdictional Class: Competitive
Adopted: April 25, 1991
Revised: August 20, 2010

TRAFFIC SIGNAL TECHNICIAN

DISTINGUISHING FEATURES OF THE CLASS: This position involves responsibility for the installation, maintenance, and repair of electromechanical, solid state, and microprocessor based traffic control devices. Work is performed under general supervision in accordance with established policies and procedures. Supervision may be exercised over a work crew. The incumbent does related work as required.

TYPICAL WORK ACTIVITIES: (Illustrative only)

- Assures the work conforms to appropriate industrial electrical installation safety codes and specifications and makes sure that highway work zones are properly protected for the safety of both the motoring public and the work crew;
- Performs operational and electronic inspections of traffic signals, sign, and street lighting systems including but not limited to performing ground rod resistance and service voltage tests, making inductance tests on vehicle detection systems, and performing continuity tests on control equipment cable assemblies;
- Maintains and repairs traffic signals, sign, and street lighting systems, including but not limited to replacement of control system subassemblies, rewiring of defective circuits, installing conduit, and renewing electrical service connections;
- Diagnosis and performs repairs in complex solid state and microprocessor based traffic signal control equipment in the field or at the bench by utilizing appropriate diagnostic procedures, evaluating the performance of major subassemblies, and replacing defective components where indicated;
- Based on emergency malfunction reports received, analyzes the problems and directs or performs repairs to traffic signal control equipment on a 24 hour basis where failure to act immediately would create a hazardous condition to the traveling public;
- Plans and implements a periodic inspection program of all traffic signals, and schedules necessary maintenance or reconstruction or recommends contract reconstruction as appropriate;
- Conducts studies and makes recommendations designed to improve traffic flow control and signal systems;
- Writes and modifies computer control programs for traffic signals;
- Keeps an inventory of material and supplies necessary in the maintenance and repair of traffic controls systems;
- May be required to do electrical repairs or installations in various highway buildings from time to time;
- Assists in operating and maintaining pavement marking equipment and various other tasks which include but are not limited to the laying out of road markings and the painting of stop bars, hatch bars, arrows, and railroad crossing;
- Assists in fabricating, installing, and maintaining traffic control signs and devices as required;
- Maintains records pertaining to traffic control signals and signs;
- May operate equipment on highway construction and/or road maintenance projects on an as needed basis.

Traffic Signal Technician

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES & PERSONAL CHARACTERISTICS:

Good knowledge of the installation, maintenance and repair of electromechanical, solid state and microprocessor based traffic control devices;

Working knowledge of the principles of electricity;

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

Ability to read and interpret electrical drawings, specifications, and wiring diagrams;

Willingness to report for emergencies and to work under all weather conditions;

Manual dexterity.

MINIMUM QUALIFICATIONS: Either:

(a) Graduation from a regionally accredited or New York State registered college, university, or technical institute with an Associate's Degree in electronics or electrical technology; or

(b) Two (2) years experience in the installation, maintenance, and repair of electronic traffic control devices; or

(c) Two (2) years of experience as a journey level electrician; or

(d) An equivalent combination of training and experience as defined by the limits of (a), (b), and (c) above.

SPECIAL REQUIREMENT: Eligibility for an appropriate level New York State Driver's license at time of application. Possession of license at time of appointment.