

New York State Department of Civil Service
DIVISION OF CLASSIFICATION & COMPENSATION

Classification Standard

Occ. Code 7341810

Traffic Systems Technician 1, Grade 14 7341810
Traffic Systems Technician 2, Grade 16 7341820

Brief Description of Class Series

Positions in this series perform technical work requiring specialized training and experience to install, operate, maintain, troubleshoot, and repair a variety of electrical systems and electronic and computer equipment utilized to monitor and control Transportation Systems Management and Operations (TSMO) infrastructure and to ensure the safety of the traveling public on the State highway system.

These positions are classified only in the Department of Transportation.

Distinguishing Characteristics

Traffic Systems Technician 1: full performance level; installs, operates, maintains, repairs, and provides system integration of traffic signal and Intelligent Transportation Systems (ITS) hardware, network communications and software utilized to manage traffic; works independently and frequently alone in the field; may work with a team of Traffic Systems Technicians 1, or other support staff, or be assigned as a team leader on a project-by-project basis.

Traffic Systems Technician 2: supervisory level; oversees and directs the work of a subordinate crew of at least six Traffic Systems Technicians, or other support staff, or be assigned a team leader on statewide projects.

Illustrative Tasks

Traffic Systems Technician 1

- Installs, maintains, tests, modifies, adjusts, overhauls, troubleshoots, and repairs a variety of electrical systems and electronic and computerized equipment used to monitor and control TSMO infrastructure.
- Programs traffic signal microprocessor computers, at live intersections, from timing plans that may need field adjustment to meet safety standards.

- Responds to traffic signal emergency situations, including dark signals, which may require installing and maintaining portable generators to retain 3-color traffic signal operation until utility power is restored.
- Performs major system modifications such as traffic signal phasing and timing; signal head modifications; intersection infrastructure construction; traffic signal system integration; and system networking.
- Inspects traffic signals and ITS systems installed by private contractors to ensure conformance to agency standards.
- Performs traffic signal engineering support tasks in the development, implementation, and support of regional traffic signal and ITS programs and their integration.
- Performs scheduled Preventative Maintenance (PM) inspections and Signal Support Inspections (SSI) of traffic signal equipment at signalized intersections.
- Operates specialized traffic signal vehicles, associated equipment, hand tools, and electrical and network testing equipment.
- Maintains centralized traffic signal database systems that support operation, maintenance, and asset management inventory.
- May serve as team leaders for assigned projects; assigns work to team members; and ensures that work performed by the team is completed in a timely manner and consistent with agency safety and operational standards.

Traffic Systems Technician 2

May perform all the task and activities of a Traffic Systems Technician 1.

Oversees and directs the work of a subordinate crew.

- Assigns and reviews the work of subordinate Traffic Systems Technicians 1, as well as other State and contract staff performing work on behalf of the agency.
- Provides leadership, training, and technical guidance to crew members.
- Approves time off, schedules rotational on-call assignments, completes employee performance programs, and performs other administrative tasks consistent with the supervision and oversight of subordinate staff.
- Assists in the administration and development of a regional and statewide TSMO program, maintaining centralized operational systems and ensuring compliance with programmatic policy and guidance.

- Provides field expertise and assistance in engineering, operations, preconstruction, and final acceptance of TSMO infrastructure.
- Plans and implements a periodic inspection program of all regional TSMO infrastructure.
- Schedules repairs and services required based on TSMO infrastructure needs and inspection results.
- Coordinates crew activities with other regional and statewide programs; other state agencies and, municipal and contract staff.
- Advises and assists local municipalities with the operation of traffic signal equipment.
- As required, acts as an expert witness representing the State and/or the agency in litigation involving transportation systems operation or maintenance.

Minimum Qualifications

Traffic Systems Technician 1

Open competitive: satisfactory completion of a two-year traineeship or three years of experience assisting in the installation, repair, or maintenance of traffic signal equipment and/or intelligent transportation systems, commercial, industrial, or military electronic/electrical integrated system components.

Traffic Systems Technician 2

Promotion: one year of service as a Traffic Systems Technician 1.

Note: Classification Standards illustrate the nature, extent, and scope of duties and responsibilities of the classes they describe. Standards cannot and do not include all the work that might be appropriately performed by a class. The minimum qualifications above are those required for appointment at the time the Classification Standard was written. Please contact the Division of Staffing Services for current information on minimum requirements for appointment or examination.

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