

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

Classification Standard

Occ. Code 7180400

Toll Electronic Systems Technician, NS

Brief Description of Class

Toll Electronic Systems Technicians install and maintain electrical and electronic toll collection, traffic information, and related equipment. These positions are classified only at the New York State Thruway Authority.

Distinguishing Characteristics

Toll Electronic Systems Technician: under the general direction of a Maintenance Supervisor 1 or 2 (Toll Equipment), incumbents repair electronic toll collection and audit systems and equipment on an assigned section of the Thruway system.

Related Class

Traffic Systems Technicians 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 traffic systems on the State highway system.

Illustrative Tasks

Toll Electronic Systems Technician

Installs and repairs toll collection equipment and systems.

Installs, maintains, and tests various ITS elements such as Dynamic Message Signs, the Highway Advisory Radio System, Traffic Data Systems, Weather Information Systems, Closed Circuit Television Cameras, and traffic control warning signs.

Installs, maintains, and tests various other equipment such as electronic time clocks, network ethernet data converters, switches and hubs.

Operates a variety of technician hand tools and electronic test equipment such as multimeters, oscilloscopes, radio frequency (RF) power meters, fiber optic light meters, and visual fault locators.

Implements a preventive maintenance schedule designed to prevent equipment failure, and to maintain optimal systems operation.

Overhauls equipment taken out of service for repairs.

Modifies equipment and assists in testing modifications to determine practicability.

Maintains work records, requisition supplies, and prepares service reports.

Independence of Operation

In addition to a regular maintenance schedule, incumbents of these positions are subject to 24/7 call-in emergencies. Additionally, while incumbents may work with other technicians and maintenance staff, these positions are required to work on off ladders up to 14 feet, on lift platforms 25-30 feet high, and on buckets attached to trucks up to 65 feet high. Additionally, incumbents climb stairs to work on large over-the-road VMS signs up to 20 feet and may be required to work on catwalks under and on structures over bridges, climb stairs over open water and/or work on the top of 20-foot-high toll canopies.

Minimum Qualifications

Toll Electronic Systems Technician

Open-Competitive: three years of experience in the installation, maintenance, repair, and troubleshooting of complex electrical/electronic equipment such as computer hardware, network hardware, or similar equipment involving work with electrical/electronic control circuits; or 60 college semester credit hours including at least 15 college semester credit hours in electrical engineering, electronic engineering, electrical technology, computer technology, automotive technology, electrical construction and maintenance, or electronic technology and one year of experience as described above; or military training/rating in an electronics field including completion of an electronic rating school program and one year of the experience as described above; or graduation from a high school technical electricity/electronics education program or a BOCES program recognized by the New York State Education Department and one year of the experience as described above; or successful completion of a two-year traineeship.

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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