

New York State Department of Civil Service

DIVISION OF CLASSIFICATION & COMPENSATION

Occ. Code 7341200

Assistant Traffic Signal Equipment Specialist, Grade 15	7341200
Traffic Signal Equipment Specialist, Grade 19	7341400
Senior Traffic Signal Equipment Specialist, Grade 23	7341600
Traffic Signal Coordinator, Grade 25	7341100

Brief Description of Class Series

Positions in this title series receive, test, and repair microprocessor-based and solid state traffic signal equipment and control devices. These positions assemble and test new equipment for distribution; repair damaged, broken, or malfunctioning equipment for redeployment in the field; and dispose of equipment that cannot be repaired.

These positions are classified only at the Department of Transportation.

Distinguishing Characteristics

Assistant Traffic Signal Equipment Specialist: entry-level; tests, diagnoses, and repairs routine issues with electronic traffic equipment; assists in recording test data.

Traffic Signal Equipment Specialist: full performance level; develops specifications, installation procedures, and test and repair procedures for traffic control devices and Intelligent Transportation System devices.

Senior Traffic Signal Equipment Specialist: provides technical expertise for the design and development of traffic signal control equipment; supervises staff and oversees the day-to-day operations of the traffic signal laboratory and asset management program.

Traffic Signal Coordinator: directs the activities of the traffic signal laboratory; supervises and coordinates traffic signal software and hardware development and training.

Illustrative Tasks

Assistant Traffic Signal Equipment Specialist: reporting to a Senior Traffic Signal Equipment Specialist, diagnoses and repairs defects in electronic traffic signal control

equipment; disassembles and reassembles electronic parts; removes and replaces failed electronic components; performs quality assurance and acceptance tests and authorizes the return of equipment to the field; uses various test software packages to diagnose operational problems based on traffic operation complaints; evaluates new electronic traffic signal control equipment; performs physical and electronic tests of new equipment and certifies equipment that meets division standards; develops preventative maintenance procedures for equipment when not provided by manufacturer; and prepares reports on equipment needs and repairs.

Traffic Signal Equipment Specialist: reporting to a Senior Traffic Signal Equipment Specialist, performs the more difficult tests and calibrations for electronic devices and equipment using sophisticated testing equipment; analyzes test results to determine product acceptability and compliance; assists in the use and evaluation of new equipment and systems to develop an approved product list; designs and assembles test devices and equipment; assists in preparing specifications for traffic control equipment and related materials; prepares and maintains records of recommendations for equipment modifications, design changes, and repairs; assists in establishing priorities for the installation of equipment in various areas of Department residencies; tests, diagnoses, and repairs circuit boards and subassemblies in electronic equipment; liaisons with manufacturer representatives; and assists with research projects as needed.

Senior Traffic Signal Equipment Specialist: under the general direction of the Traffic Signal Coordinator, manages resources to complete traffic signal laboratory tasks; ensures uniform equipment, methods, and procedures for traffic equipment installation are followed across residencies; oversees the installation and maintenance of traffic equipment by lower-level staff in the field; prepares specifications for the purchase of supplies, equipment, and related materials; develops procedures for the testing and repair of traffic signal control devices and Intelligent Transportation System devices; conducts research of similar signal laboratory operations in other states to determine ways to improve existing methods, materials, and equipment; performs final product acceptance and quality control testing activities; and serves as the Department representative at various meetings as needed.

Traffic Signal Coordinator: under the general direction of the bureau manager, supervises, coordinates, and directs all traffic control equipment testing activities; supervises and provides support to all traffic signal staff in the field and laboratory; coordinates with consultants to meet software and hardware needs; oversees quality control activities in the traffic signal laboratory; evaluates and makes final recommendations regarding the purchase and installation of new traffic signal devices and related equipment; reviews complaints and ensures proper operation of all traffic signals and related equipment; develops and provides training programs for all staff in the traffic signal laboratory; reviews and approves annual budget requests and work programs; and maintains records of equipment failures based upon repair activities.

Minimum Qualifications

Assistant Traffic Signal Equipment Specialist

Open-Competitive: 60 semester credits hours of college-level study in engineering or technology, including at least 15 credit hours in electronics, and two years of experience in electronic troubleshooting, repair, maintenance, or design of solid state electronic equipment, including at least one year of involvement with micro computer equipment.

Promotion: one year of service as a Traffic Systems Technician 1 or Electronic Equipment Mechanic.

Traffic Signal Equipment Specialist

Open-Competitive: 60 semester credits hours of college-level study in engineering or technology, including at least 15 credit hours in electronics, and three years of experience in electronic troubleshooting, repair, maintenance, or design of solid state electronic equipment, including at least one year involving microprocessor-based traffic signal equipment.

Promotion: one year of service as an Assistant Traffic Signal Equipment Specialist or Traffic Systems Technician 2.

Senior Traffic Signal Equipment Specialist

Promotion: one year of service as a Traffic Signal Equipment Specialist.

Traffic Signal Coordinator

Open-Competitive: eight years of experience in traffic signal operations including the development, programming, testing, modification, upgrade, and debugging/documenting of traffic signal operational parameters; using test and diagnostic equipment for the deployment of traffic signal operation parameters for intersection control hardware; and developing and implementing arterial and Closed Loop Signal Systems. One year of this experience must have included the supervision and training of technical and field staff on the operational aspects of electronic equipment and related software for transportation related devices.

Promotion: one year of service as a Senior Traffic Signal Equipment Specialist.

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 which were required for appointment at the time the Classification Standard was written. Please

contact the Division of Staffing Services for current information on minimum qualification requirements for appointment or examination.

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