

**MONTGOMERY COUNTY GOVERNMENT
ROCKVILLE, MARYLAND
CLASS SPECIFICATION**

**Code No. 004119
Grade 14**

TRANSPORTATION SYSTEMS TECHNICIAN I

DEFINITION OF CLASS:

This is developmental level, semiskilled work involving the more standard and recurring types of assembly, modification, installation, testing, maintenance and field and bench repair projects involving a variety of traffic control, traffic monitoring and traveler information equipment, devices and subsystems (e.g., traffic signal heads, wiring, poles, cabinets, span cable, pedestrian signals, school flasher signal assemblies, variable message signs, lane control and channelization devices, fiber optic signs, traffic advisory radio system, traffic video surveillance cameras, etc.). Contacts are limited to the crew to which employees are assigned, the purpose of which is to receive and provide information. This class of work may entail some public service/assistance, but it is incidental to the primary focus of the work performed.

An employee in this class is expected to independently perform recurring assignments. The supervisor provides specific instruction for new, difficult or developmental-type assignments. The employee is expected to refer problems and unfamiliar situations not covered by instructions to the supervisor for help. Review of the work increases with more difficult assignments if the employee has not previously performed similar assignments. Guidelines include standard operating procedures, normal trade practices, technical manuals, equipment manufacturers' instructions, and code requirements which are closely followed to complete assigned tasks. The work is made complex by the many different steps required to assemble, install, test and maintain or make routine repairs on traffic control equipment and devices. The work affects the reliability of equipment operations supported by the Transportation System Technical Center. Strict observance of safety precautions and procedures is required since much of the work involves working with and around electrical voltage and high powered equipment and/or working from extended heights. Employees in this class must possess good strength and agility in order to recurrently lift objects weighing up to fifty (50) pounds and to be able to occasionally maneuver objects up to one-hundred (100) pounds.

EXAMPLES OF DUTIES: (Illustrative Only)

- Performs bench, shop and field maintenance and repair work on traffic control, traffic monitoring and traveler information equipment, devices, and sub-systems within capabilities and skills using hand and power tools of the trade.
- Receives formal and on-the-job instruction and training from a journeyman staff at the Technical Center or from the Unit supervisor to acquire and develop the knowledge, skills and abilities of the trade.
- Uses knowledge of mathematics to learn how to plan and lay out work.
- Cleans and otherwise maintains hand and power tools and equipment of the trade.
- Performs related duties as required.

KNOWLEDGE, SKILLS AND ABILITIES:

- Ability to work inside and outside and from extended heights either near or in midst of moving traffic.
- Ability to periodically wear and use personal protective clothing and equipment as required.
- Ability to prepare simple sketches and material lists.
- Ability to understand and carry out oral and written instructions in English.
- Ability to independently lift, push, and pull heavy pieces of communication equipment and tools occasionally weighing up to one-hundred (100) pounds.
- Must be free from colorblindness.
- Ability to attend meetings and/or perform assignments at locations outside the office.

MINIMUM QUALIFICATIONS:**Installation, Maintenance and Repair**

Experience: One (1) year of general experience in the area of electrical wiring or electronics.

Education: Completion of high school or High School Certificate of completion recognized in the State of Maryland supplemented by completion of course work which demonstrates a basic understanding of electronics.

Equivalency: An equivalent combination of education and experience may be substituted.

Physical Ability: Ability to lift objects weighing up to fifty (50) pounds and to be able to occasionally maneuver objects weighing up to one-hundred (100) pounds.

Physical Ability: Ability to independently move, pull or otherwise maneuver equipment and tools occasionally weighing up to one-hundred (100) pounds.

License:

- Possession and maintenance at all times of a valid Class “C” (or equivalent) driver’s license from the applicant’s state of residence.

Overhead Construction

Experience: One (1) year of experience involving electrical wiring and intersection set up of traffic signal control devices and related equipment.

Education: Completion of high school or High School Certificate of completion recognized in the State of Maryland supplemented by completion of either formal school or on-the job training in electrical wiring appropriate to traffic signal control devices.

Equivalency: An equivalent combination of education and experience may be substituted.

License:

- Possession and maintenance at all times of a valid Commercial Driver’s License (CDL) from the applicant’s state of residence. **Note:** There is no substitution for this section.

PROBATIONARY PERIOD:

Individuals appointed to a position in this class will be required to serve a probationary period of six (6) months, during which time performance will be carefully evaluated. Continuation in this class will be contingent upon successful completion of the probationary period.

MEDICAL EXAM PROTOCOL: Core II Exam with a Drug/Alcohol Screen.

Class Established: September, 1975

Revised: September, 1977

June, 1980
August, 1985
March, 1992
Classification Study: June 1998 (M)
April, 2010
August, 2013
March, 2014
February, 2016
September, 2016

Formerly Titled: “Apprentice Traffic Signal Technician”