

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

**Code No. 004111
Grade 19**

TRAFFIC MANAGEMENT TECHNICIAN II*

DEFINITION OF CLASS:

This is traffic engineering and management work of a paraprofessional nature at the full performance level. Employees in this class have contacts with engineers, contractors, consultants, utility companies, the general public, and related County, State, and other public agency personnel to exchange information and provide advice and/or guidance. Contacts require interpretation of requirements and discussion of technical problems, and facilitating the provision of a particular process or service such as traffic management plan implementation, data analysis, and traffic surveillance. This class of work may entail some public service/assistance, but it is incidental to the primary focus of the work performed.

Employees in this class work rotating shifts and weekends, and are responsible for the daily operation of an automated traffic management system including operating a central traffic signal computer, identifying traffic problems and/or malfunctions within the system, dispatching the appropriate service technician, participating in the management of traffic incidents, and conducting traffic engineering studies and analyses. Employees receive work objectives and deadlines with assignments and independently plan, coordinate, and perform the work, resolving most conflicts, and referring only unusual or unprecedented situations to the supervisor for assistance. While positions in this class are non-supervisory, employees periodically provide training and assistance to Traffic Management Technicians I employees. Work is reviewed upon completion to ensure technical soundness and conformity to standard operating procedures, policies and objectives. Guidelines include industry standards and State and County codes and regulations that are not always completely applicable to the work and may require adaptation or modification. Performance of the work requires specialized technical knowledge of computers and their application to traffic signals, the impact of traffic signal timings and phasings upon traffic management, and the design and operation of traffic signal systems. The complexity of the work of this class is characterized by assignments that involve a variety of processes and methods, and require consideration of many factors and an understanding of interrelationships among these factors, i.e., performance of engineering computations, preparation of recommendations for alterations in traffic flow, implementation and the assessment of the effectiveness of traffic management changes during a highway incident. Efforts of these employees involve treating a variety of traffic management issues, and adapting precedent or established procedures as necessary to accomplish objectives. Work affects the overall operation of traffic on County roadways on a daily basis through the development of refinements in traffic controls and the resolution of traffic management problems. Employees in this class perform field investigations or traffic surveillance, which entails working in an environment that involves moderate discomforts and risks such as exposure to operating equipment at construction sites, moving traffic on the highway and driving in traffic. A reflective vest is worn when working in close proximity to moving traffic. Employees are required to operate a motor vehicle.

EXAMPLES OF DUTIES:

- Operates a computer-controlled traffic signal system making changes and adjustments independently

based on real time conditions on the roadways, and coordinates the management of traffic during an incident or traffic disruption, i.e. an accident or road construction activity.

- Monitors the operation of the computerized traffic signal system and the formulation and input of data base information. Calculates signal phasing and timing, and prepares time-space diagrams.
- Conducts comprehensive traffic surveys to collect data to be used in controls; prepares graphs, tables, maps, and accident reports related to traffic, pedestrian safety, and highway design.
- Develops recommendations and prepares plans for traffic control measures such as traffic signal timings, traffic system parameters, and changes in geometric design.
- Performs related duties as required.

KNOWLEDGE, SKILLS AND ABILITIES:

- Knowledge of the principles and practices of traffic engineering and traffic management as they concern developing refinements in traffic control systems and the resolution of traffic management problems.
- Knowledge of mathematics, including algebra and geometry, as well as the methods, equipment, and techniques for planning, designing, estimating costs, and monitoring/inspecting traffic engineering projects.
- Knowledge or the ability to acquire knowledge of County, State, and Federal laws, codes, and regulations pertaining to traffic engineering and management.
- Knowledge of the methods and procedures of operating a central traffic signal computer system.
- Ability to read and interpret traffic engineering plans and specifications and to convey their meaning to others.
- Ability to work with coworkers, contractors, engineers, and other public agency and County employees to obtain, clarify, and provide information, discuss and resolve technical traffic management problems, and to provide advice or guidance.
- Ability to independently perform field investigations and surveillance in environments that present moderate discomforts and risks.
- Ability to communicate instructions and decisions over a two-way radio.
- Ability to react to situations clearly and completely and make independent judgments and decisions regarding traffic management and control.

MINIMUM QUALIFICATIONS:

Experience: Three (3) years of experience in paraprofessional traffic engineering with a concentration in traffic signal and/or operations that has required the application of the principles of traffic engineering and mathematics to the solution of traffic engineering/management problems involving traffic control, capacity, vehicular speed, and related matters; and, including some experience in traffic signal computer operation.

Education: Completion of high school or High School Certificate of completion recognized in the State of Maryland.

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

License: Possession and maintenance at all times of a valid Class "C" (or equivalent) driver's license from the applicant's state of residence.

PROBATIONARY PERIOD:

Individuals appointed or promoted to 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 Exam II.

Class Established: July, 1990

Revised: April, 2010

August, 2013

July, 2016

November, 2016