

*Code: 2462*

*Title: TRAFFIC ENGINEERING TECHNICIAN*

**SUMMARY:** This classification researches traffic conditions in the field and in the office, conducts traffic engineering studies and prepares technical reports and recommendations.

**DUTIES/RESPONSIBILITIES:** (Work assignments may vary depending on the department's needs and will be communicated to the applicant or incumbent by the supervisor.)

Conducts field and office research, analyses and documents transportation and traffic engineering studies, such as speed studies, ball-banking curve studies, turning movements, delays, passing-sight distance, four-way stop, highway/roadway capacity analyses, traffic signal warrant studies;  
Prepares technical reports and recommendations for intersection and roadway segment improvements based upon study findings from traffic engineering studies;  
Uses industry-/government approved methods and standards to evaluate intersection and roadway capacity, traffic signal operation and system performances;  
Investigates, evaluates and prepares responses to traffic service requests filed by the public, contractors, developers and other affected parties;  
Writes detailed Departmental work orders for transportation/traffic engineering projects;  
Evaluates completed transportation/traffic engineering projects for impact on accident volume/rates and other factors, and submits required reports and recommendations for changes;  
Drafts (manually or using computer-based systems) road striping, signage and roadway geometry plans;  
Evaluates Arizona traffic accident reports for assigned area(s), and submits reports and recommendations for changes for signage, roadway, traffic signals and related technical aspects;  
Performs operator-level servicing and maintenance of traffic-counting and related equipment;  
Assures field work-sites are located and appropriately marked to avoid or minimize hazards to workers, the public and traffic;  
May review work performed by private contractors for compliance with Pima County Striping Standards.

**KNOWLEDGE & SKILLS:**

Knowledge of:

- principles and techniques of conducting and documenting transportation and traffic engineering studies;
- Federal, State and local regulations, rules, ordinances and standards for traffic control, traffic engineering and related studies;
- technical requirements for the collection, processing, analyzing and reporting of study findings;
- engineering mathematics appropriate to assigned duties;
- principles and techniques of manual and computer-aided drafting;
- work-site traffic control devices, processes and procedures;

Skill in:

- conducting, analyzing and documenting transportation and traffic engineering studies;
- researching traffic engineering problems and developing recommendations;
- writing comprehensive technical reports and recommendations;
- manual and computer-aided drafting;
- use of automated and computer resources and equipment to collect, analyze and document data and studies and related activities;
- use of still photographic and video equipment/cameras to document observations;
- establishing data collection and observation points on/near roadways to facilitate data collection, while assuring work-site safety measures are observed;
- communicating effectively.

**MINIMUM QUALIFICATIONS:**

**EITHER:**

(1) Eighteen months of technical experience in the conduct of traffic engineering or traffic operations

studies and analyses;

OR:

(2) An Associates degree from an accredited college or university with a major in Civil Engineering, Planning, Systems Engineering, Surveying, Drafting or Mathematics and six months of technical experience in the conduct of traffic engineering or traffic operations studies and analyses;

OR:

(3) One year of experience with Pima County as a Public Works Engineering Technician and six months of technical experience in the conduct of traffic engineering or traffic operations studies and analyses. [Experience in traffic engineering/traffic operations studies may be concurrent with general experience.]

OTHER REQUIREMENTS:

Licenses and Certificates: Some positions may require a valid Arizona Class D Driver's License at the time of appointment or prior to completion of initial/promotional probation.

Special Notice Items: Some positions may require working in extremes of weather or prolonged exposure to heat, cold, sunlight, wind and dust.

Physical/Sensory Requirements: Physical and sensory abilities will be determined by position.

This class specification is intended to indicate the basic nature of positions allocated to the class and examples of typical duties that may be assigned. It does not imply that all positions within the class perform all of the duties listed, nor does it necessarily list all possible duties that may be assigned.

Pima County

Revised 02/27/00<sup>(fn)</sup>  
Updated 01/30/08<sup>(tb)</sup>