

*Code: 2460*

*Title: TRAFFIC ENGINEERING TECHNICIAN-SENIOR*

**SUMMARY:** This classification plans, assigns to staff, and participates in resolution of traffic-related problems and the conduct of traffic engineering and transportation studies, which includes the preparation of 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.)

Plans, participates in, assigns and evaluates the work of technical staff performing transportation/traffic engineering studies;  
Conducts field and office research, analyses and documentation of 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, or reviews and recommends approval of, 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;  
Trains technical staff in transportation/traffic engineering study techniques;  
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;  
Assures field work-sites are located and appropriately marked to avoid or minimize hazards to workers, the public and traffic.  
May represent the Department in preparing and reviewing requests for highway use permits related to special events.

**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 studies and associated documentation;
- engineering mathematics appropriate to assigned duties;
- principles and techniques of manual and computer-aided drafting;
- principles and techniques of employee supervision, training and evaluation;
- 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;
- using manual, automated and computer-based equipment and resources to facilitate assigned studies;
- manual and computer-aided drafting;
- supervision, evaluation and training of technical staff;
- use of computer resources to conduct, analyze and document studies and related activities;
- communicating effectively.

MINIMUM QUALIFICATIONS:                    EITHER:

(1) A Bachelor's degree from an accredited college or university with a major in Civil Engineering, Planning, Transportation, Systems Engineering or Mathematics and one year 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 or Mathematics and three years of technical experience in the conduct of traffic engineering or traffic operations studies and analyses;

OR:

(3) Two years of experience with Pima County as a Traffic Engineering Technician.

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.