

Code: 2460

Title: TRAFFIC ENGINEERING TECHNICIAN-SENIOR

SUMMARY: Performs technical engineering work resolving traffic-related problems and conducting traffic engineering and transportation studies, which includes the preparation of technical reports and recommendations. This classification is distinguished from Traffic Engineering Technician which provides basic technical support to routine projects. This classification is also distinguished from the Traffic Engineering Assistant classification which provides complex preparation and/or review of engineering plans and conducting traffic signal warrant analysis.

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 and participates in field and office research, analyzes and performs traffic engineering studies, such as speed studies, ball-banking curve studies, delays, sight distance, four-way stops, and crosswalk analysis;

Collects, compiles and analyzes traffic data generated by field studies, including daily traffic volumes, turning movement counts, and classification studies;

Uses current approved methods of Traffic Engineering Division practices and procedures to evaluate intersection and roadway operating conditions, and prepares technical reports and recommendations for intersection and roadway segment improvements based upon study findings from traffic engineering studies;

Investigates, evaluates and prepares responses to traffic service requests filed by the public, contractors, developers and other affected parties;

Develops (manually or using computer-based systems) road striping and signage plans;

Writes departmental work orders for installation/maintenance of traffic control devices and ensures field work-sites are located and appropriately marked to avoid or minimize hazards to workers, the public, and traffic;

Represents the department for processing and reviewing traffic control plans, inspecting traffic control applications and special permits including recommendations for simple traffic control requirements and for highway-use permits related to special event requests;

Inspects and monitors inventories of construction projects for compliance with signing and striping plans and specifications;

Performs crash assessments and before/after crash reviews for intersections and roadway segments and makes recommendations for improvement;

Coordinates Neighborhood Traffic Management Program, holds public meetings, evaluates records and petitions, prepares maps, makes recommendations for traffic calming alternatives, schedules and inspects construction;

Conducts research on federal and state traffic sign standards and designs special non-standard signs based on recommendations of traffic studies;

Performs traffic control inventory reviews for roadways, reconstruction projects, or newly accepted roadways and subdivisions;

Performs signing and striping upgrades on roadways and intersections;

May train technical staff in proper procedures for collecting data and performing routine traffic studies.

KNOWLEDGE & SKILLS:

Knowledge of:

- principles and techniques of conducting and documenting technical studies;
- engineering mathematics appropriate to assigned duties;

- principles and techniques of manual and computer-aided drafting;
- work-site traffic control devices, processes and procedures;
- local, state and federal regulations, rules, ordinances for traffic control, traffic engineering and related studies.

Skill in:

- conducting, analyzing and documenting technical studies;
- researching problems and developing recommendations;
- writing technical reports and recommendations;
- using manual, automated and computer-based equipment and resources to facilitate assigned studies;
- communicating effectively.

MINIMUM QUALIFICATIONS:

EITHER:

(1) Three years of technical work experience in the conduct of traffic engineering or traffic operations studies and analyses.

OR:

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

OTHER REQUIREMENTS:

Licenses and Certificates: Some positions require a valid Arizona Class D driver license at the time of application. Failure to maintain the required licensure shall be grounds for termination.

Physical/Sensory Requirements: Some positions may require working in extremes of weather or prolonged exposure to heat, cold, sunlight, wind and dust.

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

Pima County

Revised 9/4/12 (Team)
Updated 2/7/14(lsg)