

TRAFFIC SIGNAL OPERATIONS SPECIALIST

DEFINITION

Under direct supervision, performs traffic data collection, traffic signal timing, traffic signal coordination, and traffic systems monitoring; and performs related work as required.

SUPERVISION RECEIVED/EXERCISED

This classification receives supervision from a Division Manager or designee. This classification does not exercise supervision.

DISTINGUISHING CHARACTERISTICS

Incumbents perform technical work in support of the City's traffic signal operations in the Public Works Department Intelligent Transportation Systems (ITS) Program. This classification is distinguished from the Supervising Traffic Signal Operations Specialist in that incumbents of the latter perform the more difficult and complex assignments and may supervise.

EXAMPLES OF IMPORTANT AND ESSENTIAL DUTIES

may include, but not limited to, the following:

Performs the operation and maintenance of the Traffic Operations Center (TOC), City-Wide Advance Transportation Management Systems (ATMS), Adaptive Signal Control Technology (ASCT), and legacy Bitrans systems.

Maintains records of the TOC operations for all new and legacy traffic control systems.

Reviews signalized intersections and corridors, analyzes and models traffic data, and implements traffic signal timing and traffic signal coordination. Gathers, organizes, analyzes, and archives traffic data.

Analyzes, tests, installs, maintains, and prepares operations and maintenance plans for ITS components for traffic signal operations.

Works with contractors to update, modify, and repair TOC systems; assists in the inspection and monitoring of contract work.

Exchanges data with other agencies, such as Caltrans, Fresno County, City of Clovis and other traffic control centers.

Identifies traffic signal problems, and makes recommendations to supervisor.

May assist with design plans, specifications, and cost estimates for ITS capital and traffic signal projects.

Performs related work as required.

JOB RELATED AND ESSENTIAL QUALIFICATIONS

Knowledge of:

Industry systems and equipment, such as traffic signal timing, synchronization and maintenance.

Applicable local and state laws and standards for the design and operation of traffic signals.

The fundamentals of electrical and electronics systems and network telecommunication systems.

Office procedures, methods, and equipment including computers and applicable software applications such as word processing, spreadsheets, and databases.

Skill to:

Operate computerized systems and software for the operation and synchronization of traffic signals.

Operate electronic tools and computerized equipment to maintain ITS components.

Operates a variety of electronic and computerized traffic signal operating controls and test equipment.

Safely operate a motor vehicle and bucket truck with a boom.

Ability to:

Deploy traffic signal timing plans and corridor synchronization plans.

Maintain ITS components of traffic signal cabinet assemblies, controllers, and communications systems.

Comprehend electric logic diagrams, fiber optic diagrams, electrical drawings and specifications.

Work indoors and outdoors, and in adverse weather conditions; lift 30 lbs, work in traffic signal cabinets and underground vaults; and ability to work at heights and distinguish colors.

Communicate effectively both orally and in writing.

Carry out assignments given in general terms.

Establish and maintain effective working relationships with those contacted during the course of work.

MINIMUM QUALIFICATIONS

Possession of an Associate's Degree from an accredited college or university with major course work in engineering, computer science, information technology or related field and one year of experience in traffic signal operations, timing, or maintenance. Additional qualifying experience may be substituted for the required education on a year-for-year basis, with thirty units equaling one year of experience.

Special Requirements

Possession and continued maintenance of a valid California Driver's License at time of appointment.

APPROVED: _____
Director of Personnel Services

DATE: _____

NEW:JTC:scm:
9/10/15