

**MAJOR FUNCTION**

This is skilled technical work in the installation and maintenance of all types of communications and electronic equipment related to computerized traffic control systems, electrical and electronic work in traffic signal construction and maintenance activities for the Tallahassee Advanced Transportation Management System (TATMS) and Intelligent Transportation Systems (ITS). Incumbents receive work objectives and deadlines for assignments from the supervisor and independently perform the work, referring any unusual situation to the supervisor for assistance. Duties may include answering direct, email and telephone inquiries from the public, other agencies, media, legal and public officials concerning traffic operations. Duties may also include responsibility for performing lead worker duties to subordinates engaged in similar activities. This employee may be required to work emergency management operations beyond the normal work day. Work is under the general direction of a senior technician. Work is reviewed through observation and results obtained.

**ESSENTIAL AND OTHER IMPORTANT JOB DUTIES****Essential Duties**

**Construction:** Installs all components of a variety of electrical traffic control devices, including flasher/sign assemblies, poles, cabinets and bases, signal controllers, communication units, preemption devices, video detection and all other electrical field equipment, conduit, inductive loop detectors, messenger cable, fiber optic or other control or interconnect cable, optical signal units and related hardware. Repairs damaged or faulty electrical or structural components in the field. Assists with house moves. Performs related work as required.

**Traffic Signal/ITS Maintenance:** Responds to trouble calls and repairs damaged or faulty electronic equipment in the field or in the shop, as required. Tests electronic equipment prior to installation or as a part of the repair procedure. Investigates complaints pertaining to faulty traffic signals/ITS. Performs preventative maintenance. Maintains traffic signal/ITS equipment on a scheduled and on call basis. Plans, installs, and maintains traffic signal/ITS wiring and cabling systems to support a traffic signal/ITS communications network. Performs installation and maintenance of computerized traffic control systems equipment including personal computer (PC) signal controller, videos, modems, and other miscellaneous end user devices. Maintains accurate records of wiring and cable assignments and end user device inventories. Performs miscellaneous traffic signal/ITS maintenance and construction assignments. Performs related work as required.

**Traffic Management Center:** Monitors and operates the city's computerized advanced transportation management system under the guidance of higher level technicians and engineers. Conducts traffic management related observations to evaluate and improve traffic operations and safety. Operates all equipment and software in the TMC. Assists higher level technicians and engineers in the implementation and coordination of field activities related to traffic management. Monitors and operates the city's CCTV system. Monitors the status of the fiber optic communications systems. Dispatches field technicians to signal malfunctions, camera malfunctions, fiber optic and copper communications malfunctions, incidents and special events. Performs real-time updates to transportation information systems including generation of recorded messages for broadcast on radio, assists with web site updates, variable message sign control and operation, kiosk message maintenance and other intelligent transportation system features to operate the TATMS. Assists higher level technicians and engineers with conducting tours and demonstrations to guests (e.g. media, public officials, students, others). Assists in developing traffic management related computer programs and databases. Maintains neat and accurate TMC documentation, signal files, and data entry into TATMS. Work assignments are generally more complex than for technicians in construction or maintenance. The majority of the work is performed in an office environment; however, an employee makes occasional field visits which do not involve physical demands. Performs related duties as required.

Other Important Duties

Serves on cross functional teams as assigned. Attends training and developmental events to keep abreast of events in subject area. Performs related duties as required.

**DESIRABLE QUALIFICATIONS**Knowledge, Abilities and Skills

Knowledge of telecommunications industry practices and standards, National Electrical Code (NEC) communications terms and technologies. Knowledge of telecommunications systems and associated end user devices. Knowledge of the standard practices, tools, and terminology of the electrical and/or electronics trades. Knowledge of the City's electrical code. Knowledge of basic electric and/or electronic theory. Knowledge of recommended safety practices of the trade. Knowledge of the operation of modern traffic signal control and communication equipment. Knowledge of the City's street system. Knowledge of the operation of a variety of electrical construction and specialized vehicles. Ability to perform strenuous manual labor in adverse weather conditions below ground, at ground level or above ground. Ability to define problems, repair or replace defective parts/equipment, and properly install new parts/equipment. Ability to read and interpret complex electrical or electronic diagrams, schematics, blueprints and engineering drawings and plans. Skill in the use and care of tools and test equipment utilized in electrical/electronic repair and calibration. Ability to plan and install wiring, cabling, and fiber optic systems, as well as associated equipment required by the transportation management system communications network. Ability to demonstrate a positive, professional, team-work style of work performance and attitude. Knowledge of, or the ability to acquire knowledge of the methods and procedures of operation a central traffic signal computer system. A working knowledge in the use of computers and computer software. Ability to access and manipulate data using computers and engineering software. Knowledge of principles of traffic management and operations at the paraprofessional level.

Minimum Training and Experience

Construction: Possession of a high school diploma or an equivalent recognized certificate and four years of experience that includes traffic signal construction or electrical construction.

Traffic Signal/ITS Maintenance: Possession of a high school diploma or an equivalent recognized certificate, at least two years of electronics courses beyond the high school level, and two years of technical electronics experience; or an equivalent combination of education and experience. (Experience in the installation and splicing of communications cable and the installation of end user devices may be considered equivalent.)

Traffic Management Center: Possession of an associate's degree and one year of work experience that includes traffic management center operations and/or the application of the principles of traffic engineering and mathematics to the solution of traffic management problems involving traffic control, capacity, vehicular speed, and related matters; or an equivalent combination of education and experience.

Necessary Special Requirements

Employees assigned to construction are required to obtain an International Municipal Signal Association (IMSA) level II traffic signal technician certification or journeyman's electrician license within one year of appointment, as a condition of continued employment.

Traffic Signal/ITS Maintenance: Must possess the appropriate State Commercial Driver's License (CDL) and endorsement(s) at the time of appointment, or must have passed the appropriate written CDL test/endorsement(s) and obtained a CDL permit at the time of appointment and obtain the

appropriate CDL licensure within 90 calendar days from date of employment as a condition for continued employment.

Traffic Management Center: Must possess a valid Class E State driver's license at the time of appointment.

Employees assigned to construction or maintenance must obtain The Florida Department of Transportation Intermediate Maintenance of Traffic Certification within 6 months of initial employment and maintain the certification as a condition of continued employment.

Note: Preference may be given to applicants possessing an International Municipal Signal Association (IMSA) Level I Certification.

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