

TRAFFIC SIGNAL TECHNICIAN I

PURPOSE AND NATURE OF WORK

Position is responsible for skilled work involved in the installation, maintenance, and repair of traffic signals, signal systems, and associated traffic equipment. Work involves installing and maintaining overhead traffic signs from a bucket truck. Incumbents are subject to 24-hour call for emergency repair work, and occasional work in adverse weather conditions. Work is performed under the general supervision of the Traffic Signal Maintenance Foreman.

ILLUSTRATIVE EXAMPLES OF WORK (Note: These examples are intended only to illustrate the various types of work performed by incumbents in this class. All of the duties performed by any one incumbent may not be listed, nor does any incumbent necessarily perform all of these duties.)

Assist more experienced technicians. Work includes assembling, installing, and maintaining traffic signal control equipment (i.e. vehicle and pedestrian detection systems and signal displays, signal support standards, aerial and underground wiring). Performs preventative and routine maintenance, modifies controller and panels per engineering drawings, interprets electrical and electronic schematics and blueprints, assists in surveying utilities, tests and maintains communication equipment, tests and maintains emergency vehicle preemption system, troubleshoots and repairs digital and microcomputer control equipment using test equipment (e.g. digital multimeters, frequency counters, generators, spectrum analyzer, signature analyzer, oscilloscopes).

Performs related work as required.

NECESSARY KNOWLEDGES, ABILITIES, AND SKILLS

Considerable knowledge of the principles of electrical, electromechanical, and digital electronic work as related to the operation, maintenance, and repair of traffic signals and related appliances.

Considerable knowledge of the standard methods, materials, tools, and equipment used in the electrical and electronics trade.

Considerable knowledge of the occupational hazards and safety precautions involved in electrical and electronic work as well as traffic safety within work areas.

Ability to diagnose and repair malfunctions in traffic signals and related appurtenances.

Ability to participate and successfully complete formal technical and electronic training as required.

Ability to work from moderate heights and to work outdoors for extended periods under adverse conditions.

Skill in the use and care of the tools, equipment, and material used in traffic signal maintenance work of this nature.

DESIRABLE TRAINING AND EXPERIENCE

Graduation from high school, completion of recognized vocational/technical school course work in electronics and electricity and experience in traffic signal installation, maintenance, and repair; or any equivalent combination of training and experience. Pass International Municipal Signal Association course exam for Level I/Associate Traffic Signal Technician certification within one year, and for Level II/Traffic Signal Technician within two years of employment.

APPRENTICESHIP

Positions in this class are assigned to an apprenticeship as defined by Civil Service Rule IV, Section 6. This requires the employee to complete initial and ongoing training requirements as established by Traffic and Transportation within one (1) year for continued employment, including the obtainment of the appropriate class of Driver's License as required by the State of Louisiana during the working test period.