

TRAFFIC SIGNAL TECHNICIAN II

PURPOSE AND NATURE OF WORK

Position is responsible for highly skilled work involved in the installation, maintenance, and repair of traffic signals, signal systems, and associated traffic equipment. Work includes installing and maintaining overhead traffic signs from a bucket truck. Incumbents of this class assist in training lower level technicians and apprentices. Additionally, incumbents are subject to 24-hour call for emergency repair work, and occasionally work in adverse weather conditions. Work is performed under the general supervision of the Traffic Signal Maintenance Foreman.

The work of this class is distinguished from that of Traffic Signal Technician I by the higher level of technical skill and training, and the more complex assignments.

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.)

Assists in training and overseeing lower level 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). Incumbent performs preventative and routine maintenance, modifies controller and panels per engineering drawings, designs and interprets electrical and electronic schematic and blueprints, surveys utilities, tests and maintains communication equipment (i.e. Fiber), tests and maintains emergency vehicle preemption system, troubleshoots/repairs digital and microcomputer control equipment using test equipment (e.g. digital multimeters, frequency counters, sweep generators, synthesizer/function generator, IFR modulation meter, spectrum analyzer, signature analyzers, oscilloscopes), performs construction inspection and participates in final acceptance of project inspections.

Performs related work as required.

NECESSARY KNOWLEDGES, ABILITIES, AND SKILLS

Thorough 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.

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

Thorough 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 required.

Ability to work from moderate heights and to work outdoors for extended periods of adverse weather 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 considerable experience in traffic signal installation, maintenance, and repair; or any equivalent combination of training and experience. Possess International Municipal Signal Association Level II/Traffic Signal Technician certification. Pass exam for Level III/Traffic Signal Engineering Technician within five years of employment.

NECESSARY SPECIAL QUALIFICATION

Possession of the appropriate class of Driver's License as required by the State of Louisiana, prior to appointment.