

Electronics Technician – Traffic Signal

FLSA Status: Covered
Bargaining Unit: District Council of Trade Unions (DCTU)

General Summary

Positions in this broad class install, test, repair and remove electronic equipment and related electronics and communications devices, with a specialization in traffic signals and related technologies.

Traffic Signal Technician I - 30000235

The journey level of this class typically installs, tests, repairs and removes a variety of electronic equipment and related electronics and communications devices, with a specialization in traffic signals and related technologies. It is distinguished from the Electronics Technician Assistant class by the requirement to work independently and from the other Electronics Technician classes by its specialization in traffic signals and related technologies.

Typical Duties/Examples of Work

1. Installs, maintains, troubleshoots, and repairs a variety of traffic signal equipment, and related systems, sub-systems, connections, and controls; interprets and works from plans; works with other electronic equipment and related electronics and communications devices as required.
2. Responds to failures and emergencies involving traffic signals and other electronic systems and equipment; performs routine and preventative maintenance.
3. Performs a variety of traffic signal related installations; operates a variety of hand and power tools and testing equipment to perform work.
4. Ensures that repairs and installations are safe and operate properly; evaluates safety and operability of systems; reviews the work of contractors to ensure compliance with specifications and standards; assists others with proper operation and care of equipment.
5. Performs a variety of diagnostic and analytical tests, including those involving programmable logic controls; researches information as necessary to perform duties and maintain currency.
6. Maintains records, supplies and equipment; determines materials needs; carries out all required safety procedures.

- 7. As assigned, directs work of crews or work groups; responsible for worker safety, review of work, training and guidance in duties.
- 8. Performs related duties as assigned.

Required Knowledge, Skills and Abilities

Knowledge of: tools, materials, processes and techniques of traffic signal equipment and electronics; troubleshooting techniques

Skill in: repairing, troubleshooting, maintaining, modifying and installing traffic signal and electronic equipment and related electronics and communications devices; operation of specialized equipment

Special Requirements

Valid state driver’s license; requires Restricted Energy License

Classification History:

Adopted: 2-03-99:

Class created as a result of DCTU Classification and Compensation Study 1998-99. This class is composed of the following classes:

3250 Electronics Tech I Adopted: 00-00-00

Revised: 02-17-81; 00-00-00

Revised: 03-10-95 (Updated format, updated technology to include video.)

June 2009 - Change Job Class number from 3250 to 30000235, due to system change.

Traffic Signal Technician II - 30000237

Distinguishing Characteristics

The senior journey level of this class typically serves as a technical expert in traffic signals and related technologies. It is distinguished from the Traffic Signal Technician I class by its responsibility for technical guidance to others and project role, and from the other Electronics Technician classes by its specialization in traffic signals and related technologies.

Typical Duties/Examples of Work

- 1. Provides technical expertise in the installation, maintenance, troubleshooting, repair and operation of a variety of traffic signal equipment, and related systems, sub-systems, connections, and controls.

2. Plans, schedules and coordinates work; determines resource needs of work group; as assigned, may provide technical direction to or lead the work of others; reviews the work of and provides training and guidance to assigned workers; ensures safety of workers.
3. Lays out jobs; executes projects from start to finish; provides input on planning processes related to traffic signal equipment and systems and other electronics equipment and systems; provides customer service interface.
4. Performs related duties as assigned.

Required Knowledge, Skills and Abilities

Knowledge of: project planning and layout for traffic signal and electronic installations; effective principles and practices of leadership

Ability to: perform layout and sketch designs for traffic signal and electronic installations and modifications; communicate effectively; establish and maintain effective working relationships with co-workers; work constructively in a team; schedule and assign the work of others

Skill in: demonstrating techniques to others; providing training to others; providing lead direction to staff, including assigning and reviewing work

Special Requirements

Valid state driver’s license; requires limited maintenance electrician license and restricted energy license; other licenses or certifications may be required.

Classification History:

Adopted: 2-03-99:

Class created as a result of DCTU Classification and Compensation Study 1998-99. This class is composed of the following classes:

3251 Electronics Tech II Adopted: 00-00-00

Revised: 02-17-81; 00-00-00

June 2009 - Change Job Class number from 3252 to 30000237, due to system change.

Working Conditions

Work in this class is typically performed in a shop environment; some work is performed in a field environment. Incumbent is typically required to lift up to 50 pounds. To work outdoors as required in all weather conditions; to work at heights or in confined spaces; to work in and around traffic; to wear protective gear; to work with hand and power tools; to be exposed to electric currents; to be called back to work during emergencies.