



## **Traffic Signal Technician 1**

**Category:** Classified  
**Pay Grade:** C22  
**Job Code:** 16530

*To perform this job successfully, an individual must be able to perform the essential job functions satisfactorily. Reasonable accommodations may be made to enable individuals with disabilities to perform the primary job functions herein described. Since every duty associated with this position may not be described herein, employees may be required to perform duties not specifically spelled out in the job description, but which may be reasonably considered to be incidental in the performing of their duties just as though they were actually written out in this job description.*

### **JOB SUMMARY**

Performs skilled technical work in the installation, repair, and maintenance of computerized traffic signal systems and related apparatus; assists higher-level employees in field or bench work involving electronic, electrical, or mechanical systems.

### **ESSENTIAL JOB FUNCTIONS (examples, not all inclusive)**

- Performs work required to install traffic signal intersection controls and systems including traffic signals, detectors, controls, wiring poles, microprocessor-based traffic controllers, time switches, conduits, and appurtenances;
- Maintains, modifies, and repairs traffic signal equipment and apparatus and detects and corrects causes of failures in traffic signal and telecommunications equipment and related apparatus;
- Performs emergency and routine field servicing of traffic signal equipment, street lights, navigational lights, and drawbridge apparatus operating or working from an aerial bucket truck;
- Assists in wiring cabinets and installing, maintaining, and repairing computer interface equipment and programming digitized controllers;
- Uses hand, bench, and small power tools in repair of machinery and equipment;
- Operates and performs preventive maintenance on machinery and automotive equipment, including lift and boom trucks and jack and bore equipment;
- May set up and monitor traffic counting devices as required;
- Performs shop related duties, including cleaning shop, organizing and stocking parts, tools, and equipment, and wiring signal heads;
- May appear as a witness in court cases;
- Performs other related job duties as assigned.

### **QUALIFICATIONS**

#### **Education and Experience:**

Two (2) years of electronic or electrical repair work experience; or an equivalent combination of education, training, and/or experience.

#### **Special Qualifications (May be required depending on area of assignment):**

- Florida Driver's License or Florida Commercial Driver's License and endorsement, if any.
- Assignment to work a variety of work schedules including compulsory work periods in special, emergency, and/or disaster situations.
- Must obtain an International Municipal Signal Association (IMSA) Level I Certification within two (2) years from date of appointment.

- Candidate to demonstrate more advanced proficiency, competency, and satisfactory completion of regularly assigned work in an independent manner. Appointing Authority retains discretion to employ an incumbent at this level or advance the incumbent non-competitively or competitively, after a candidate meets the minimum qualifications to an in-line career ladder position within the same organization or department.
- Other knowledge, skills, abilities, and credentials required for a specific position.

**Knowledge, Skills and Abilities:**

- Knowledge of standard practices, materials, tools, and equipment used in electronic and electro mechanical traffic signal systems;
- Knowledge of local and national electrical equipment codes, occupational hazards, and appropriate safety precautions;
- Skill in the application of CPR and First Aid Techniques;
- Ability to withstand exposure to varying weather conditions and work in confined spaces at considerable heights, and possession of sufficient physical strength and agility to lift and carry heavy objects and stand and walk for long periods;
- Ability to locate, define, and repair defects in traffic signal equipment and apparatus;
- Ability to install, alter, repair, and maintain a variety of electronic, electrical, and mechanical systems and equipment;
- Ability to interpret and work from technical sketches, blueprints, and schematics;
- Ability to use small office equipment and computers.

**PHYSICAL/MENTAL DEMANDS**

The work is heavy work which requires exerting up to 100 pounds of force occasionally, and/or up to 50 pounds of force frequently, and/or up to 20 pounds of force constantly to move objects. Additionally, the following physical abilities are required:

- **Balancing:** Maintaining body equilibrium to prevent falling while walking, standing or crouching on narrow, slippery, or erratically moving surfaces. The amount of balancing exceeds that needed for ordinary locomotion and maintenance of body equilibrium.
- **Climbing:** Ascending or descending ladders, stairs, scaffolding, ramps, poles and the like, using feet and legs and/or hands and arms. Body agility is emphasized.
- **Crouching:** Bending the body downward and forward by bending leg and spine.
- **Feeling:** Perceiving attributes of objects, such as size, shape, temperature or texture by touching with skin, particularly that of fingertips.
- **Fingering:** Picking, pinching, typing, or otherwise working, primarily with fingers rather than with the whole hand as in handling.
- **Grasping:** Applying pressure to an object with the fingers and palm.
- **Handling:** Picking, holding, or otherwise working, primarily with the whole hand.
- **Kneeling:** Bending legs at knee to come to a rest on knee or knees.
- **Lifting:** Raising objects from a lower to a higher position or moving objects horizontally from position-to-position. Occurs to a considerable degree and requires substantial use of upper extremities and back muscles.
- **Pulling:** Using upper extremities to exert force in order to draw, haul or tug objects in a sustained motion.
- **Pushing:** Using upper extremities to press against something with steady force in order to thrust forward, downward or outward.
- **Reaching:** Extending hand(s) and arm(s) in any direction.
- **Visual ability:** sufficient to effectively operate office equipment including copier, computer, etc.; and to read and write reports, correspondence, instructions, etc.
- **Hearing ability:** sufficient to hold a conversation with other individuals both in person and over a telephone; and to hear recording on transcription device.
- **Speaking ability:** sufficient to communicate effectively with other individuals in person and over a telephone.
- **Mental Acuity:** Ability to make rational decisions through sound logic and deductive processes.
- **Talking:** Expressing or exchanging ideas by means of the spoken word including those activities in which they must convey detailed or important spoken instructions to other workers accurately, loudly, or quickly.

- Repetitive Motion: Substantial movements (motions) of the wrist, hands, and/or fingers.
- Standing: Particularly for sustained periods of time.
- Stooping: Bending body downward and forward by bending spine at the waist. Occurs to a considerable degree and requires full motion of the lower extremities and back muscles.
- Walking: Moving about on foot to accomplish tasks, particularly for long distances or moving from one work site to another.

### **WORKING CONDITIONS**

Work is performed in an environment with heavy equipment and machinery that could result in bodily harm to co-workers or others.