

# **CITY OF CHATTANOOGA**

## **Classification Specification Title: Electronics Technician 1**

**Department: Technology Services**

**Pay Grade: GS.06**

**Supervision Received From: Manager Intelligent**

**FLSA Status: Non-Exempt**

**Trans Systems Supervisory Responsibility For: None**

**Established: 6/29/07**

**Revision Dates: 4/2/25;  
12/4/23; 10/20/23; 1/11/23**

### **CLASSIFICATION SUMMARY:**

Incumbents in this classification are responsible for providing specialized services for electronic traffic control devices. Duties include building, testing, repairing, programming and maintaining electronic and electrical traffic control equipment; rewiring and modifying traffic control cabinets; calibrating new equipment and assisting electricians in the field to expedite repairs in emergencies. Work is performed with limited supervision.

### **SERIES LEVEL:**

Electronics Technician is the first level of a two-level traffic electronic signal series.

### **ESSENTIAL FUNCTIONS:**

*(The following duties ARE NOT intended to serve as a comprehensive list of all duties performed by all employees in this classification, only a representative summary of the primary duties and responsibilities. Incumbent(s) may not be required to perform all duties listed and may be required to perform additional, position-specific duties.)*

Testing, troubleshooting, repairing and performing routine preventative maintenance on electronic traffic control equipment which includes microprocessor-based controllers, conflict monitors, load switches, flash transfer relays, loop detectors, video detection cameras, and other related traffic control equipment.

Performs bench tests on new equipment to ensure proper functionality.

Troubleshoots, repairs, rewires, and reconfigures new and used signal controller cabinets to meet specific intersection requirements; repairs cabinets damaged at intersections; rewires used cabinets for new and existing locations and tests, configures and rewires contractor-installed cabinets for specific locations.

Design, wire, and program control cabinets for flashing school zones.

Set up field equipment for communication over the network and troubleshoot any communication problems using network troubleshooting techniques.

Troubleshoots and repairs problems with traffic electronics equipment in the field and during emergency situations.

Downloads and uploads controller data to controllers.

Performs testing of conflict monitors to ensure reliability and accuracy.

Participates in planning, designing and fabricating custom test equipment and special needs-based intersection projects.

Prepares and maintains a variety of records, databases, logs, drawings and other applicable documentation related to equipment repairs, inventory, intersections and/or other related items.

Uses, carries and answers cell phone for business purposes as determined by the assigned job duties and the Department Head.

Must meet regular attendance requirements.

Must be able to maintain good interpersonal relationships with staff, co-workers, managers and citizens.

Must accomplish the essential functions of the job, with or without reasonable accommodations, in a timely manner.

Performs other duties as assigned.

This position is deemed essential during inclement weather situations, and must report to or remain at work, even when administrative closings are announced, as determined by the Department Head.

#### DEPARTMENT SPECIFIC DUTIES (if any):

**MINIMUM QUALIFICATIONS:** Associate's Degree in Electronics; OR equivalent technical training in electronic equipment repair and two (2) years related experience/training sufficient to successfully perform the essential functions of this job or any combination of equivalent experience and education.

**LICENSING AND CERTIFICATIONS:** Possession of or ability to obtain International Municipal Signal Association Level 1 Certification.

#### SUPPLEMENTAL INFORMATION:

**KNOWLEDGE & SKILLS:** Knowledge of electronic repair and troubleshooting practices; traffic control equipment; telephony and other applicable communications equipment and applicable tools and equipment utilized in the trade.

Skill in using a computer and related software applications; troubleshooting and repairing component level electronic equipment; soldering; utilizing applicable tools and equipment of the trade; reading and interpreting wiring diagrams and electronic schematics and communication and interpersonal skills as applied to interaction with coworkers, supervisor, and the general public, sufficient to exchange or convey information and to receive work direction.

**PHYSICAL DEMANDS:** Positions in this class typically require reaching, standing, walking, pushing, pulling, lifting, fingering, grasping, talking, hearing, seeing and repetitive motions.

WORK ENVIRONMENT: Medium Work: Exerting up-to 50 pounds of force occasionally and/or up-to 20 pounds of force frequently and/or up-to 10 pounds of force constantly to move objects. Incumbents may be subjected to electrical currents, fumes, dust, traffic hazards, and extreme temperatures.

SPECIAL REQUIREMENTS:

Safety Sensitive: Y

Department of Transportation - CDL: N

Child Sensitive: N

The City of Chattanooga, Tennessee is an Equal Opportunity Employer. In compliance with the Americans with Disabilities Act, the City will provide reasonable accommodations to qualified individuals with disabilities and encourages both prospective and current employees to discuss potential accommodations with the employer.