**Class Summary**

The responsibilities of this classification include the installation, diagnosis, repair, and testing of electronic systems in transit vehicles and auxiliary equipment, and trolley propulsion systems.

**Distinguishing Characteristics**

This is the first of a two-level Electronic Technician classification series. Work is performed under the general supervision of a Transit Electronic Technician – Lead and vehicle maintenance supervisors. It is distinguished from the Transit Radio & Communications Electronic Specialist classification in that the Transit Radio & Communications Electronic Specialist is responsible for diagnosing, troubleshooting, and performing repairs on electronic equipment within transit facilities and incumbents within the Transit Electronic Communications Technician is responsible for diagnosing, troubleshooting, and performing repairs on electronic equipment onboard transit coaches and equipment. The Transit Electronic Communications Technician supports electronic equipment installation within established guidelines and procedures and performs very limited troubleshooting.

**Examples of Duties**

1. Troubleshoot and repair malfunctions on coach and trolley ancillary electronic systems, analog and digital control systems, solid-state electronic systems; fabricate and install special electronic testing systems.
2. Perform routine preventive maintenance inspections on electronic equipment; make adjustments and alignments to optimize transit coach performance.
3. Populate new printed circuit board assemblies with common discrete and integrated electronic components; fabricate and install retrofitted and updated specialized electronic equipment and devices to enhance and extend transit coach performance.
4. Setup, operate, and perform preventative maintenance on electronic test equipment, such as oscilloscopes, multimeters, signal generators, function generators, chart recorders, insulation testers, data loggers, computers, and other specialized test equipment.
5. Maintain records of completed calibrations, preventive maintenance, repairs, time worked and materials used; enter and extract data using an automated information maintenance managementsystem.
6. Diagnose and repair propulsion system malfunctions on trolley coaches.
7. Support, install, troubleshoot, maintain and remove equipment associated with wireless data and fare collection systems onboard transit vehicles.
8. Perform other duties as assigned.

**Knowledge/Skills**

Knowledge of electric and electronic systems and components used in mass transit vehicles and facilities

Knowledge of the current theory and principles of electronic and electrical circuitry

Knowledge of solid-state circuitry and the applicable diagnostic and repair techniques and procedures

Knowledge of analog and digital control systems

Knowledge of the current, state-of-the-art repair procedures, techniques, and equipment

Skill in the operation of the tools and equipment used in diagnosing, troubleshooting, maintaining, and repairing electrical and electronic systems and components

Skill in the interpretation and application of schematics, wiring diagrams, technical manuals and similar materials

Skill in verbal and written communication

Skill in basic mathematics

Ability to work varying shifts on weekdays, nights, weekends, and holidays

Ability to work independently and as a team member

Skill in working with a variety of individuals from diverse backgrounds

Skill in using current office software programs including word processing, spreadsheet, database and email

**Education and Experience Requirements**

Any combination of experience/education/training that provides the required knowledge, skills and abilities to perform the work

**Licensing, Certification and Other Requirements**

Valid Washington State Driver License

Must pass drug and alcohol testing provisions for safety sensitive positions as required by the U.S. Department of Transportation, 49 CFR Parts 40 and 655

Additional licenses, certifications, and other requirements determined to be necessary to meet the business needs of the employing unit may be required.

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| **FLSA Designation** | Non-exempt |
| **Service Status** | Career Service |
| **EEO Code** | 2 |
| **Levels within same series** | Transit Electronic Technician  Transit Electronic Technician - Lead |
| **Class History** | 10/2010 – Updated description; changed title to Electronic Technician  3/2019 – Updated duties and responsibilities |