**Class Summary**

The responsibilities of this classification include performing maintenance on radio, communications, and electronic systems dedicated to railway operations as well as railway signal and communications equipment and systems. Work is performed independently and under the general direction of a Rail Signal and Communications Technician – Lead and the Rail Signal and Communications Chief.

**Distinguishing Characteristics**

This is a single-level classification. This classification is distinguished from the Rail Signal and Communications Technician classification in that the Rail Signal and Communications Technician is primarily responsible for maintaining the signal and related communications systems associated with the Link Light Rail System.

**Examples of Duties**

1. Maintain, troubleshoot, and repair electronic communication systems, including simulcast radio systems, distributed antenna systems, fiber optics, wireless communication equipment, digital trunk systems, digital microwave systems, console electronics, base stations, satellite receiver systems, antenna combiners, isolator cavities, and associated hardware.
2. Perform preventive and corrective maintenance on electronic communication systems and associated equipment; calibrate equipment to Federal Communications Commission (FCC) standards and manufacturer’s specifications. Review and provide recommendations on system and equipment specifications, construction plans, prints, and specifications.
3. Assist Rail Signal and Communications Technicians in inspecting, troubleshooting, and repairing railway signals and communications equipment.
4. Maintain records of preventive maintenance and calibrations, completed repairs, time worked, and materials used; enter and extract data using automated systems.
5. Prioritize and complete emergency maintenance tasks without on-site supervision; respond to emergency calls.
6. Operate switch machines by hand and local control panels under revenue and non-revenue conditions.
7. Plan, schedule, and coordinate activities and work with other trades and divisions; assist other trades as necessary.
8. Set up work zone traffic control areas; flag trackway to provide safe rail work zones.
9. Operate assigned vehicles, including hi-rail and aerial lift equipment.
10. Perform snow and ice removal.
11. Perform other duties as assigned.

**Knowledge/Skills**

Knowledge of and skill in performing journey-level work in electrical, electronic, analog, and digital communications systems, including skilled use of the tools, calibration, and diagnostic equipment used in the maintenance and installation of electronic communication and related systems

Knowledge of Radio Frequency theory and application

Knowledge of the principles of electrical and electronics theory

Knowledge of circuit design and analysis

Knowledge of FCC standards, rules, and regulations

Skill in verbal and written communications

Skill in basic mathematics

Ability to effectively engage in and sustain relationships with people from diverse cultures and socio-economic backgrounds

Ability to work independently and as a team member

Demonstrated proficiency with business applications, such as Microsoft Office suite

Ability to work different shifts on weekends, nights, and holidays

Ability to work in adverse weather conditions, events, and other emergencies

**Education and Experience Requirements**

Any combination of education and experience that clearly demonstrates the ability to perform the job duties of the position

**Licensing, Certification and Other Requirements**

Washington State Class B driver's license, or the ability to obtain and maintain a Class B license, with endorsements, is required.

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.

Federal Communications Commission (FCC) General Radiotelephone Operator License (GROL) is required.

Working in confined spaces or high places from mechanical lift devices, support structures, and poles, outdoors and indoors, and in inclement weather, is required.

Work is performed within a live-operating rail transit system.

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** | 7 |
| **Levels within same series** | None |
| **Class History** | 02/2024 - Created |