**Class Summary**

The responsibilities of this classification include serving as an apprentice assisting Rail Electrical Workers in a variety of work to troubleshoot, maintain, repair, upgrade, and perform comprehensive preventive maintenance on rail electrical systems. All apprentices will receive on-the-job training to perform progressively more difficult, physically demanding, and complex work assignments. In addition to on-the-job activities, apprentices must be prepared to complete an established minimum number of hours per year of formal, independent academic training.

**Distinguishing Characteristics**

This is the second level in a five level classification series. Incumbents in this classification receive close supervision and on-the-job, classroom, and computer based training to develop the essential skills required to become a journey-level Rail Electrical Worker. The employees in this class are enrolled in a formal training program designed to prepare them to be a journey-level Rail Electrical Worker. Incumbents gain experience in this classification and are assigned increasingly responsible work and work more independently in areas where they have demonstrated skill as they learn all aspects of the work.

**Examples of Duties**

*All duties below are performed in conjunction with or under the general supervision of a Rail Electrical Worker or Rail Electrical Worker - Lead.*

1. Maintain LR Overhead Contact System (OCS); maintain light rail overhead lines and associated components, underground feeders, switches, electrical wiring, and systems including a variety of single phase, three phase, and DC systems.
2. Inspect, maintain, and upgrade substations and their components; maintain and repair low voltage, auxiliary power plants, transfer switches, and uninterruptible power supplies.
3. Perform high voltage tests on power cables and equipment; splice, maintain, and terminate all types of low and high voltage cable; pull, rack, and secure high and low voltage cables in manholes, conduits, tunnels, and vaults.
4. Program and troubleshoot PC, PLC, and micro-processor based control systems.
5. Operate power switches and breakers.
6. Perform other duties as assigned.

**Knowledge/Skills**

Skill in problem solving

Ability to learn to read and interpret blueprints, schematics, and drawings

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 and permitting software

**Education and Experience Requirements**

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

**Licensing, Certification and Other Requirements**

Valid Washington Driver’s License or equivalent

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** | Rail Electrical Worker – HelperRail Electrical WorkerRail Electrical Worker – LeadRail Electrical Worker Crew Chief |
| **Class History** | Created – 8/2019 |