**Class Summary**

The responsibilities of this classification include installing, maintaining, repairing and inspecting traffic signal and street lighting systems.

**Distinguishing Characteristics**

This is the first level in a two level series. It is distinguished from the Traffic Signal Technician II which requires technical expertise in electronic operation and troubleshooting, electrical wiring, and maintenance of street lighting systems and/or the responsibility of leading other staff. It is distinguished from other classifications by its responsibility for the operation and maintenance of street lighting systems.

**Examples of Duties**

1. Respond to complaints about malfunctioning traffic signals.
2. Set up temporary traffic control signing and channelization.
3. Locate, reseal, repair or replace vehicle detection apparatus.
4. Locate underground wiring conduit and boxes for utility contractors.
5. Document all work and equipment changes.
6. Locate all underground wiring, loops and power distribution for utility contractors.
7. Perform other duties as assigned.

*In addition, when working as Outside Technician:*

1. Repair and maintain wood and steel poles, energized overhead and underground cable, conduit and wiring system.
2. Replace lamps, clean and adjust optical components of signal displays and inspect traffic signal hardware, wiring and cabling.
3. Install wood poles, spanwires, cables and conductors and electrical service equipment.
4. Operate line type truck and manlift over traffic.
5. Install or replace oversize street name signs over and off roadway.
6. Install underground conduit and junction boxes.
7. Install structural concrete foundations for steel signal and lighting standards, signal controllers and electrical service interconnect cabinets.
8. Troubleshoot a large variety of gas discharge street lighting systems, electrical services and control cabinets.

*In addition, when working as Inside Technician:*

1. Perform preventive maintenance on traffic signals and flashers.
2. Repair electronic signal and small electronic equipment for other departments.
3. Perform traffic signal cabinet checkout and intersection configuration preparation.
4. Design, install and repair systems and system communications.
5. Monitor traffic flows and adjust signal timing.

**Knowledge/Skills**

Knowledge of electrical/electronic theory and troubleshooting skills

Knowledge of line worker and utility company standards and practices

Knowledge of techniques, tools, equipment and procedures for working on energized circuits

Knowledge of construction principles and practices

Skill in verbal and written communication

Skill in map reading, in reading and interpreting electronic schematic and logic flow diagrams

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

**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**

Valid Washington State Driver’s License

Traffic Signal Technical Level 1 certification

Interstate Commercial Driver’s License (some positions)

Some 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** | 3 |
| **Levels within same series** | Traffic Signal Technician ITraffic Signal Technician II |
| **Class History** | 11/1996 – Created2/2003 – Updated8/2007 – Changed font and format12/2016 – Revised job duties and added second level in series |