



TRAFFIC SIGNAL TECHNICIAN 2

Department: Planning and Public Works

Job Code: 945700

Pay Range: Maintenance/Trades 35

FLSA: Non-Exempt

Represented: Yes

Classification descriptions are intended to present a descriptive list of the range of duties performed by employees in this class. Classification descriptions are not intended to reflect all duties performed within the job.

GENERAL FUNCTION: An employee in this class is responsible for the installation and maintenance of electrical and electronic traffic control and lighting systems.

SERIES CONCEPT: This is the second level position within the Traffic Signal Technician job series. This position is distinguished from the Traffic Signal Technician 1 by having greater responsibility and full performance of more complex electronic installation, maintenance or repair of traffic signal luminaries, devices and equipment.

ESSENTIAL FUNCTIONS:

- Maintain, install, operate, and repair traffic signal and road illumination systems comprised of detector loops, control equipment, overhead and underground wiring systems, concrete bases, wood, aluminum, and steel structures, back guys, signal heads and lamps, and light sources and fiber optics networks.
- Install and maintain signs and other hardware located on traffic signal supports.
- Interpret layouts, wiring diagrams, electrical job assignments and procedures; operate specialized equipment; test and measure electrical circuits; interpret and work on electrical codes and road standards.
- Ensure signals conform to proper design and timing specifications.
- Operate lift equipment and Class III equipment to perform the installation, maintenance, and repair of road lighting, traffic signals, power systems, or other electrical inventory.
- Inspect, or assist in inspecting, new construction of traffic signals for conformance to county standards.
- Perform approved splices, pulls, solders, hangs, and terminate cables.
- Install, operate, maintain, and repair electrical control systems such as electrically-powered motor controls for ferry ramps, barricades, electrically-powered delineation systems and interconnected changeable message signs.
- Complete and maintain reports and records related to duties performed into computerized maintenance management system and/or paper files.
- Locate conduit and mark its location prior to the installation of other utilities.
- Build foundations for signal cabinets; dig foundation, make forms, and pour concrete; bend, cut and bury conduit as needed.
- Maintain regular, predictable and punctual attendance during regularly scheduled work hours at assigned worksite.
- Meet travel requirements of the position.
- Perform the physical requirements of the position; work within the established working conditions of the position.
- Work a flexible schedule, which may include evenings, weekends, holidays and overtime.
- Lift and carry up to 50 lbs.

OTHER JOB FUNCTIONS:

- Perform other related duties as assigned.

TRAFFIC SIGNAL TECHNICIAN 2
Classification Description – Pierce County
Page 2

SUPERVISION RECEIVED AND EXERCISED: The Traffic Signal Technician 2 classification does not supervise other staff. Employees work independently after receiving instruction and are expected to perform assignments independently once they are learned. Work is inspected periodically by a technical supervisor for adherence to standards.

WORK ENVIRONMENT: The work environment characteristics described herein are representative of those an employee encounters while performing the essential functions. Work is performed in the workroom or office and in the field where exposure to hazardous weather, materials and traffic conditions may occur. Assignments are performed near low and high voltage electricity. Work may be on 24-hour call standby. Work may be performed from a ladder above ground or from a lift truck.

PHYSICAL REQUIREMENTS: The physical demands described herein are representative of those that must be met by an employee to successfully perform the essential functions of the position. Fieldwork may present hazards from weather, traffic, and hazardous materials. The work requires finger dexterity in order to use and operate hand and power tools and related electronic equipment; use of eyesight in order to inspect work, read and interpret drawings, plans, and specifications; the ability to drive to various work sites; and to lift materials and equipment weighing up to 50 pounds.

KNOWLEDGE, SKILLS AND ABILITIES:

Knowledge of:

- Traffic control and communication systems.
- The methods, materials, and techniques used in construction, maintenance, operation, and repair of traffic signal and street lighting systems.
- The principles and applications of electrical and electronic theory as related to traffic signals.
- The occupational hazards and safety precautions of the electrical trade and of working in and around traffic.

Skill in:

- Use and operation of hand and power tools and electronic testing equipment.

Ability to:

- Work effectively as a member of a team.
- Work independently with minimal supervision in the field.
- Read and interpret construction plans, schematics, state and national electrical codes, and traffic control devices manuals.
- Learn computer applications as related to section activities.
- Complete neat and accurate records.
- Work outdoors for extended periods of time under unfavorable weather conditions.
- Bend, stoop, climb, work at heights and walk on uneven terrain.
- Lift up to 50 pounds.
- Work on 24-hour call standby as determined by the county.
- Understand and follow written and verbal instructions.
- Work effectively and productively with others.

TRAFFIC SIGNAL TECHNICIAN 2
Classification Description – Pierce County
Page 3

KNOWLEDGE, SKILLS AND ABILITIES: (continued)

Ability to: (continued)

- Communicate effectively verbally and in writing to audiences of various social, cultural, ethnic, educational and economic backgrounds.
- Effectively coordinate, perform and complete multiple duties and assignments concurrently and in a timely manner.
- Meet the travel requirements of the position, if any.
- Physically perform the essential job functions of the classification.

MINIMUM REQUIREMENTS TO APPLY: Three or more years of experience in traffic signal installation or closely related field is required. Training in electronics or closely related field may substitute for up to two years of the experience requirement.

SPECIAL REQUIREMENTS AND/OR QUALIFICATIONS: Possession of, or ability to obtain at time of appointment, a Washington State Driver's License. In accordance with the IBEW Local 483 Collective Bargaining Agreement, Article 5, Section 5.5. **Pierce County residency is required within six months of the date of employment and must be maintained throughout the employment as a Traffic Signal Technician unless an exception is approved in advance of any change. Each request for exception shall be evaluated on individual merit and response time and no reasonable request shall be denied. Residency requirement is due to required participation in the 24 hour on-call duty program.** Satisfactory physical condition as evidenced by a County-approved physical examination may be required. Ability to successfully complete all required background investigations.