



TRAFFIC SIGNAL TECHNICIAN 1

Department: Planning and Public Works
Job Class #: 934100
Pay Range: Maintenance/Trades 22

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 and are not intended to reflect all duties performed within the job.

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

SERIES CONCEPT: This is the first level position within the Traffic Signal Technician job series. This position is distinguished from Traffic Signal Technician 2 by its emphasis on maintenance, repair, and installation of signal-related hardware and illumination systems. A Traffic Signal Technician 1 does not independently install or repair more complex electronic elements.

Special Note: The Traffic Signal Technician 1 is typically a training position. During scheduled performance reviews of regular employees, Traffic Signal Technician 1s will be evaluated to advance to a Traffic Signal Technician 2. Upon successful completion of the competency checklist, incumbents may be eligible for progression to the Traffic Signal Technician 2 level based on performance and operational needs at the discretion of the department.

ESSENTIAL FUNCTIONS:

- Perform routine maintenance, repair, and installation functions related to traffic control hardware such as: signal heads, pedestrian heads, field wiring, luminaries, and related appurtenances.
- Revamping conduit and junction boxes, luminaries, overhead signals, pedestrian pushbuttons and other related signal hardware appurtenances.
- Install and maintain signs and other hardware located on traffic signal supports and other overhead sign locations.
- Assist in the more complex installation and repair of traffic control devices including signals, electrical services, vehicle detection systems, fiber optics networks, control equipment requiring specialized electrical or electronic knowledge, pulling wire, digging trenches and pole holes, splicing wire and other related duties.
- Operate lift equipment and Class III equipment to perform the installation, maintenance, and repair of roadway lighting, traffic signal hardware, power systems, or other electric inventory.
- Operate power tools associated with the job such as jackhammers, pipe cutters, and test equipment.
- Act as flagger, place traffic cones and other traffic control devices to ensure work zone safety and a smooth flow of traffic.
- Learn techniques and procedures associated with the maintenance, installation, repair, and operation of traffic signal systems.
- Learn to interpret layouts and electrical codes.
- Learn to operate specialized equipment.
- Complete reports and records as necessary and may enter information into computerized maintenance management system and/or paper files.
- Maintain regular and punctual attendance during regularly scheduled work hours at assigned worksite.

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- Meet the travel requirements of the position.
- Perform the physical requirements of the position; work within established working conditions of the position.
- Work a flexible schedule, which may include evenings, weekends, holidays and overtime.
- Lift and carry up to 50 pounds.

OTHER JOB FUNCTIONS:

- Perform other job functions as assigned.

SUPERVISION RECEIVED AND EXERCISED: The Traffic Signal Technician 1 does not supervise other staff. Work is performed under the direction and instructions of a Traffic Signal Technician 2 or Traffic Signal Technician 3.

WORK ENVIRONMENT: The work environment characteristics described herein are representative of those an employee encounters while performing the essential functions of the position. 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 performed from a ladder above ground or from a lift truck. **Work will be rotating 24 hour on-call duty which will be required upon successful completion of the probationary period and passing competency test as approved by the County Traffic Engineer.**

PHYSICAL REQUIREMENTS: The physical demands described herein are representative of those that must be met by an employee to successfully perform the essential functions. Field work 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; the ability to work at heights up to 50 feet above ground; 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, operations, and repair of traffic signal and street lighting systems.
- The principles and application of electrical and electronic theory as related to traffic signals and illumination systems.
- 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.
- Assist higher level technicians in the installation or repair of complex traffic signal systems.

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Knowledge, Skills and Abilities: (continued)

Ability to:

- 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.
- Understand and follow written and verbal instructions.
- Work effectively and productively with others.
- 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: Two years of related experience or vocational training as an electrician or electronics technician.

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.