

<p style="text-align: center;"><b>CITY OF BEAVERTON</b> <b>Traffic Signal Maintenance Technician</b></p>
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**General Summary**

Construct, maintain and repair the traffic signal network and street lighting system.

**Key Distinguishing Duties**

Repair and maintenance of signalized traffic control devices and the diagnosis and the repair and replacement of electronic components for traffic signal equipment.

**Essential Functions**

*Depending upon assignment, the incumbent may perform a combination of some or all of the following duties, which are a representative sample of the level of work appropriate to this class.*

1. Construct, repair and maintain traffic control devices, such as traffic signals, traffic controllers or electronic master controllers, in the field and in the shop. Establish and set new signal sequences according to accepted standards. Inspect all new installations for compliance with traffic standards, including contracted installation prior to activation.
2. Operate tools and equipment used to maintain, repair and replace traffic signals and street lighting including jackhammer, power hoist, concrete saw, welding torch and bucket truck.
3. Diagnose, repair and replace electronic components for traffic signal equipment. Maintain telephone modems and interconnects.
4. Conduct scheduled preventive maintenance procedures on signals including inspection, replacement and repair of component parts.
5. Construct and maintain the city's street lighting system including diagnosing malfunction, changing lamps and ballasts, repairing and maintaining wiring and replacing poles.
6. Locate and mark traffic signal and street lighting wiring.
7. Respond to emergency signal malfunctions and restore to proper working order. Respond to citizen complaints or inquiries relative to traffic signals, streetlights or code violations.
8. Set up traffic control for work crew sites. Perform flagging functions.
9. Complete proper paperwork. Track and document materials usage.
10. Clean and maintain equipment and work storage areas.
11. Assist in notifying citizens of scheduled projects. Answer questions from public regarding projects.

12. Respond to emergency situations as needed.
13. Participate in section operational processes including procedure development and implementation.
14. Provide excellence in internal and external customer service. Create a positive experience for customers through professional and courteous behavior and creative problem resolution. Focus on producing high quality results.
15. Represent the City to the public in operational functions as required. Advance and protect the interests of the City and its citizens in all matters.
16. Produce an acceptable quantity and quality of work that is completed within established timelines.
17. Develop safe work habits and follow all required safety policies, procedures and techniques. Contribute to safety of self, co-workers and the general public.
18. Participate in the City Emergency Management program including classes, training sessions and emergency events.
19. Follow standards as outlined in the Employee Handbook.
20. Support and respect diversity in the workplace.

### **Other Functions**

1. Perform related duties of a similar scope and nature.

### **Knowledge Required**

- ◆ Working knowledge of safety practices and principles related to traffic signals and lighting systems.
- ◆ Working knowledge of flagging.
- ◆ Working knowledge of electrical and electronic theory as it pertains to traffic signals and street lighting systems including computerized traffic control devices, equipment specifications and wiring diagrams.
- ◆ Working knowledge of the practices and principles of traffic signal and street lighting maintenance, repair and replacement.
- ◆ Basic understanding of traffic engineering theory and principles.
- ◆ Working knowledge of the laws and regulations governing traffic signal and street lighting installation, maintenance, repair and replacement including the Uniform Traffic Control Devices Manual.
- ◆ Working knowledge of basic arithmetic and mathematics principles.
- ◆ Working knowledge of English grammar, spelling and usage.

## **Skills/Abilities Required**

- ◆ Strong ability to perform skilled and semi-skilled journey level work in the electrical trades including skilled electronic maintenance and repair of equipment.
- ◆ Strong ability to operate equipment used in traffic signal and street lighting maintenance, repair and replacement.
- ◆ Strong ability to read and follow electrical plans and specifications.
- ◆ Strong ability to diagnose causes of electrical failure.
- ◆ Strong ability to use tools and small equipment related to traffic signals and street lighting systems.
- ◆ Strong ability to read technical manuals.
- ◆ Ability to read maps.
- ◆ Ability to maintain accurate records.
- ◆ Ability to participate on a team focused on producing high quality results.
- ◆ Ability to establish and maintain effective working relationships with employees, contractors, other agencies, public officials and the general public.
- ◆ Ability to apply excellent internal and external customer service skills.
- ◆ Ability to communicate effectively both orally and in writing with diverse customers, employees, contractors, other agencies, public officials and the general public. Ability to make presentations.
- ◆ Ability to use a keyboard and word processing, spreadsheet programs or other application software as required for position.
- ◆ Ability to use general office equipment.

## **Minimum Qualifications Required for Entry**

High School diploma or GED and 3 years experience in traffic signal and lighting systems maintenance, repair and replacement or an equivalent combination of education and experience enabling the incumbent to perform the essential functions of the position.

## **Licensing/Special Requirements**

- ◆ Positions in this classification are required to possess a valid driver's license and the ability to meet the City's driving standards.
- ◆ Commercial Driver's License – B with air brake endorsement required.
- ◆ Traffic flagger training required within three months of employment.
- ◆ General Journey Electrician License required. Limited Maintenance Electrician License required with higher level certification preferred.

## **Working Conditions**

Daily precise control of fingers and hand movements; daily standing for prolonged periods; weekly lifting, moving and carrying of objects over 50 pounds; occasional lifting up to 90 pounds; crouching, crawling, bending, kneeling, climbing or balancing and working at high elevations; frequent work in all weather conditions and around traffic; occasional response to emergency conditions off-hours; regular exposure to vibration, fumes and high noise levels; exposure to electrical current; occasional dealing with distraught or difficult individuals; occasional attendance

at meetings or activities outside of normal working hours; daily operation of a motor vehicle on public roads.

**Classification History**

As of 10/97: Traffic Signal Technician

Revised: 1/98

New class specification title 1/98: Traffic Signal Technician

Revised: 7/98

Revised: 9/00 Traffic Signal Maintenance Technician

Revised: 11/04

Revised: 1/1/09

Status: SEIU

FLSA: Non-exempt

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Department Head Signature

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Human Resources Signature

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Date

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