

## CITY OF GLENDALE

<b>TITLE:</b>	<b>Traffic Signal Technician II</b>	<b>CLASS CODE:</b>	<b>845</b>
<b>REPORTS TO:</b>	<b>Various</b>	<b>GRADE:</b>	<b>21</b>
<b>DEPARTMENT:</b>	<b>Transportation</b>	<b>FSLA</b>	<b>N</b>

**JOB SPECIFICATION DATE: November 30, 2009 db**

### JOB SUMMARY

Performs skilled and semi skilled work of moderate difficulty in the installation, maintenance and repair of traffic signal and intelligent transportation systems equipment, the testing of signal cabinets and the locating of signal and communication lines. This is the second of three Traffic Signal technician levels.

### ESSENTIAL FUNCTIONS

1. Constructs new signalized intersections including installation of underground conduit, pull boxes and intelligent transportation system (ITS) equipment, the preparation and installation of poles, mast arms and luminaires; the wiring of cabinets, signal heads, pedestrian signal heads and terminal boxes.
2. May learn to assist ITS Technicians in operating, installing, maintaining, troubleshooting, testing, replacing and repairing malfunctioning fiber optic, microwave communication system devices, closed circuit television cameras, dynamic message signs, electronic and computer equipment.
3. Performs concrete work in signal installation and repair such as pole foundations, cabinet bases and capping pole bases.
4. Performs scheduled preventive maintenance checks (Class A) at signalized intersections including testing equipment in the signal control cabinet for proper operation and time setting; testing and recording voltage and current usage; and checking field equipment for proper head alignment, pole plumbness, missing material or visible damage.
5. Performs scheduled preventive maintenance checks (Class C) at signalized intersections including cleaning signal heads and lenses; checking heads, frame works, poles and mast arms for wear and alignment; anchor bolts and mast arm bolts for proper tightening; push button stations for proper operation and for proper intersection operation.
6. Performs scheduled preventive maintenance checks (Class D) at signalized intersections including removing deteriorating paint, patching holes and applying new paint.
7. Performs modifications and operational tests in the shop on traffic signal cabinets received for stock or field installation; completes and files completed test forms.
8. Locates and marks underground traffic signal and fiber communication lines and equipment citywide at signalized intersections for blue stake requests.
9. Repairs or replaces equipment in the field on an emergency basis due to storm or accident damage, faulty equipment, burned out lamps or other electrical or equipment problems.
10. Modernizes or revamps existing intersections by installing new equipment while existing signals are still in operation.
11. Operates construction and maintenance equipment such as platform trucks, bucket trucks, concrete saws, underground piercing drills and electrical test meters.
12. Hang overhead signs, banners and lights for other departments.
13. Places barricading and traffic control devices to provide for a safe work environment.
14. Inspects traffic signal and intelligent transportation systems work performed by contractors.
15. Coordinates with contractors when construction activities impact traffic signals or intelligent transportation systems infrastructure.

## **SECONDARY FUNCTIONS**

15. Performs other related duties as required.

## **KNOWLEDGE, SKILLS AND ABILITIES**

### **Knowledge of:**

The methods, materials and equipment used in the installation, maintenance and repair of traffic signal equipment  
Electricity and electrical systems common to traffic control devices  
The hazards and necessary safety precautions involved in working with electricity

### **Skill in:**

The operation of various types of construction and maintenance equipment  
Performing electrical wiring and traffic signal maintenance

### **Ability to:**

Understand and follow oral and written instructions and to work from plans and drawings  
Carry out an effective preventive maintenance program  
Establish and maintain effective working relationships with supervisors, employees and the public

## **WORKING CONDITIONS**

Requires frequent heavy lifting and pulling of cable, working from heights, working near high voltage, working in traffic areas.

## **MINIMUM QUALIFICATIONS**

Two years of experience in the maintenance, installation and repair of traffic signal equipment and college level course work in electricity or construction.

Any equivalent combination of training and experience that provides the required knowledge, skills and abilities, is qualifying.

## **SPECIAL REQUIREMENTS**

Depending on area of assignment:

Possession of a valid Arizona Commercial Driver's License within ninety (90) days of hire  
IMSA Fiber Optics for ITS Level I and Level II within one year of hire  
IMSA Level I and Level II within one year of hire

Applicants will be required to undergo drug testing prior to employment and will be subject to further drug and alcohol testing throughout their period of employment in accordance with the City of Glendale Substance Abuse policy