

**CITY OF SALEM  
TRAFFIC SIGNAL TECHNICIAN I**

**00657  
20657  
40657**

**NATURE OF WORK**

This is skilled entry level technical and manual labor work in the installation, maintenance and repair of traffic control signals and related equipment.

Work involves responsibility for performance of skilled work installing and maintaining all traffic signal controllers and related equipment. This classification requires assembling, installing, repairing, servicing, and design of a wide variety of electro-mechanical, microprocessor and solid state traffic control equipment. Incumbents of this classification work under close supervision until experience is gained using increasing independent judgement to correctly install, test and repair traffic signal control devices. Supervision is received in the form of specific assignments, close review of performance and work product during training period. Incumbents of this classification may occasionally act as a lead worker after experience is gained. By the end of the 18 month period, incumbents must be able to demonstrate the knowledges, skills and abilities required to become a skilled Traffic Signal Technician II by successfully completing a training program and passing examination process for Traffic Signal Technician II and receive a satisfactory performance recommendation from the supervisor of the classifications. Upon completion of the requirements the incumbent would be automatically promoted to Traffic Signal Technician II. Failure to complete the training program, receive satisfactory performance recommendations and pass the examination within 18 months of appointment will result in termination.

**ILLUSTRATIVE EXAMPLES OF WORK**

(Any single position of a class will not usually involve all of the duties listed, and many positions will involve duties which are not listed.)

Tests the physical, environmental and operational functions of signal controlled equipment including micro processor and solid state controllers. Uses specially developed and standard electronic testing equipment such as oscilloscopes, digital multimeter, LCR bridges, megohmmeter, etc. Repairs traffic signal control devices including replacing and repairing microprocessor circuit boards. Utilizes schematics, blue prints, product handbooks as needed to locate and diagnose electronic and physical fails of units, circuit boards or individual parts. Makes emergency repairs and adjustments; locates and clears short circuits.

Installs or assists in the installation of pole foundations and underground or overhead circuits; sets poles, runs underground cables and strings overhead wires. Utilizes a variety of electrical, mechanical and electronic techniques to hook up installation.

Adjusts, cleans and times traffic controllers and electro-mechanical flashing systems; replaces lamps, contacts, filters, bearings and motors. Maintains traffic control records associated with the installation, repair and maintenance of equipment, trains others in traffic signal installation and repair.

May work in a variety of weather conditions and be required to work at heights, work underground, dig trenches or post holes, or drive a repair truck.

Performs other related work as required.

### **WORK QUALIFICATIONS**

Experience in the electronic repair which includes micro-processors; an Associate Degree in electronics;(experience or training in traffic signal repairs is desirable) or any combination of training or experience which would provide the following knowledges, skills, and abilities:

Knowledge of electronic technology, practices and theories and specifically as associated with microprocessor units.

Knowledge of the practices, methods, tools, equipment and materials utilized in the installation maintenance and repair of electronic, solid state, electro-mechanical and electrical traffic control equipment.

Knowledge of occupational hazards and safety precautions associated in working with low voltage equipment.

Skill in utilizing electronic testing and measuring devices.

Skill in diagnosing and repairing electronic faults in traffic control equipment.

Skill in locating and repairing mechanical problems.

Skill in reading schematics diagrams, blue prints and sketches associated with traffic signal control systems.

Skill in the use and care of tools of the trade and construction equipment such as concrete saws, jack hammers, etc.

Ability to train other employees.

Ability to write reports.

Ability to work outside in varied weather conditions; to work at considerable heights above the ground, and underground locations and occasionally lift equipment weighing up to 50 pounds.

Ability to operate personal computers is desirable.

Possession of a valid Oregon driver's license or Class 3 license and the ability to meet City driving standards.

Ability to successfully complete an examination process within 18 months of employment in order to qualify as a Traffic Signal Technician II. Failure to successfully complete this examination within 18 months of employment will result in termination.

---

Personnel Director