

## INTELLIGENT TRANSPORTATION SYSTEMS (ITS) TECHNICIAN TRAINEE

### JOB DESCRIPTION

**Classification Responsibilities:** Under direct supervision, an Intelligent Transportation Systems (ITS) Technician Trainee learns to perform semiskilled work of routine to moderate difficulty in the installation, maintenance, and repair of traffic signals. This class is also responsible for performing related duties as required.

**Commercial Motor Vehicle (CMV) Operation Assignment:** Incumbents within this class with the desired and valid commercial driver's license (CDL) will be assigned to operate a City CMV and be required to: maintain a valid Department of Transportation (DOT) Medical Examiner's Certificate; maintain a valid commercial driver's license (CDL) of the appropriate class and with the appropriate endorsements, and without an airbrake restriction; and, will be subject to all applicable Federal Motor Carrier Safety Administration (FMCSA) regulations, Arizona Revised Statutes (ARS), Arizona Administrative Code (AAC), and City Policies regarding licensure, drug and alcohol testing, and safe CMV operation.

**Distinguishing Features:** This is the entry-level class in the ITS Technician series. Under the direct guidance of a journey-level ITS Technician II or ITS Operations Foreman, an employee in this class learns to maintain, install, and repair traffic signal equipment and systems. Initially, the ITS Technician Trainee develops skills and increases knowledge until such time as assignments can become more difficult. Work involves learning to perform heavy manual labor under varying weather conditions and may require stand-by duty and overtime as required. Employees of this classification may progress by noncompetitive promotion to ITS Technician I upon meeting the specific criteria-based promotion requirements of performance and coursework. This class is FLSA nonexempt.

### QUALIFICATIONS

**Employee Values:** All employees of the City of Mesa are expected to uphold and exhibit the City's shared employee values of Knowledge, Respect, and Integrity.

**Minimum Qualifications Required.** Graduation from high school or GED. Some (6 months - 1 year) experience in electrical or related work.

**Special Requirements.** Must possess a valid Class D Arizona Driver's License by hire date.

**Substance Abuse Testing.** Due to the safety and/or security sensitive nature of this classification, individuals shall be subject to pre-employment or pre-placement alcohol, drug and/or controlled substance testing as outlined in City policy and procedures. Incumbents who hold a valid CDL are subject to Department of Transportation (DOT) Federal Motor Carrier Safety Administration (FMCSA) drug and alcohol testing as outlined in 49 CFR Part 382 (by assignment).

**Preferred/Desirable Qualifications.** One year of traffic signal or street light construction experience is preferred. A valid Arizona Commercial Driver's License (CDL) is desirable.

## ESSENTIAL FUNCTIONS

**Communication:** Communicates with the general public, other City employees, vendors, management, and contractors to distribute information and facilitate proper job performance. Prepares written documents, such as maintenance reports, trouble call logs, time sheets, and general logbook with clearly organized thoughts using the proper sentence construction, punctuation, and grammar.

**Manual/Physical:** Operates a City vehicle requiring a standard Arizona Driver's License to travel off-site to assist in the installation and repair of traffic signal equipment and systems. Operates equipment such as a bucket truck; power-driven machinery such as a jackhammer, generator, tamper, or trencher to install or repair traffic signal equipment. Uses common hand tools such as a hammer, wire stripper, multi-meter, and/or voltage tester to construct and maintain traffic signal equipment. Perceives the full-range of the color spectrum to select and splice wires and cables for proper signal operation. Detects traffic sounds when working near moving traffic, backup warning signal devices when working around moving equipment, sirens, and calls for help. Enters data into a personal computer in order to interrogate system to determine status of field. Performs physical inventories of traffic signal hardware. Moves traffic signal poles, mast arms, heads and cabinets from one place to another using a truck, forklift, bucket truck, or crane. Moves objects up to 90 pounds, such as signal equipment, a distance of 50 feet to construct or replace signal equipment using a cart or other aid to assist. Works with chemicals and paint using normal protective equipment to clean and paint. Sets up and removes barricades and traffic cones to maintain a safe working area. Works in a variety of weather conditions while performing installation and maintenance of traffic equipment. Works in small, cramped areas while performing repair of conduit in trenches and holes. Works at elevated levels up to 60 feet while performing maintenance or installation of signal heads and ITS devices. Meets scheduling and attendance requirements.

**Commercial Motor Vehicle (CMV) Operation Assignment:** Operates a single motor vehicle with a gross vehicle weight rating (GVWR) of 26,001 pounds or more requiring a class B CDL; a combination of vehicles with a gross combination weight rating (GCWR) of 26,001 pounds or more requiring a class A CDL; or any single vehicle or combination of vehicles used in the transportation of hazardous materials requiring a class C CDL or class A/B CDL hazardous materials endorsement. Follows FMCSA regulations, State statutes, and City Policies regarding licensure, prohibited drug and alcohol use, and safe CMV operation.

**Mental:** Comprehends and makes inferences from written material. Understands and interprets blueprints, schematic drawings, and layouts to correctly install signalized intersection. Learns job-related material through on-the-job training regarding installation and maintenance of traffic signal equipment. Learns job-related material in a classroom setting regarding equipment, safety, and training.

### Abilities:

Ability to:

work with and assist journey-level ITS Technicians by providing tools and materials for assignments to be completed;  
learn to read and understand diagrams, sketches, and drawings associated with traffic signal

maintenance, installation, and repair;  
assist in the installation, maintenance, and repair of traffic signals and related equipment;  
perform the less difficult and routine installations;  
perform painting duties;  
replace signal indications and install wire and cable;  
learn to operate aerial lift equipment to heights of 60 feet;  
learn and follow procedures identified in the City Traffic Barricade Manual;  
perform heavy manual labor under varying weather conditions;  
understand and follow verbal and written instructions; and  
establish and maintain effective working relationships with management and coworkers.

The duties listed above are intended only as general illustrations of the various types of work that may be performed. Specific statements of duties not included does not exclude them from the position if the work is similar, related, or a logical assignment to the position. Job descriptions are subject to change by the City as the needs of the City and requirements of the job change.

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EEO-S/M

JOB FCTN-TEC

INCREMENTS 63-200

PAY RANGE: 44

IND-5506

SWORN-No