



## Title: Traffic Signal Technician Specialist

FLSA Status: (Non-Exempt)

### BRIEF DESCRIPTION:

The purpose of this position is to provide a variety of operations, maintenance and repair duties, on Intelligent Traffic Systems (ITS), traffic signal and street light equipment. This is accomplished by performing skilled technical work of high difficulty in the installation, maintenance, operation and repair of traffic signal equipment and traffic lights. This position requires a rotation schedule for Standby and On-Call After-Hours support, which includes evenings, holidays, and weekends. Other duties may include completing related tasks as assigned.

### ESSENTIAL FUNCTIONS:

Note: This information is intended to be descriptive of the key responsibilities of the position. The list of essential functions below does not identify all duties performed by any single incumbent in this position. Additionally, please be aware of the legend below when referring to the physical demands of each essential function.

(S) Sedentary	(L) Light	(M) Medium	(H) Heavy	(V) Very Heavy
Exerting up to 10 lbs. occasionally or negligible weights frequently; sitting most of the time.	Exerting up to 20 lbs. occasionally; 10 lbs. frequently; or negligible amounts constantly; OR requires walking or standing to a significant degree.	Exerting 20-50 lbs. occasionally; 10-25 lbs. frequently; or up to 10 lbs. constantly.	Exerting 50-100 lbs. occasionally; 10-25 lbs. frequently; or up to 10-20 lbs. constantly.	Exerting over 100 lbs. occasionally; 50-100 lbs. frequently; or up to 20-50 lbs. constantly.

#	Code	Essential Functions
1	M	Troubleshoots functionality of ITS and signal systems; locates and completes IP connections; reroutes connections as necessary and resolves conflicts to ensure function as intended.
2	V	Repairs or replaces traffic signal equipment in the field on an emergency basis including storm and accident damage, faulty equipment, burned out lamps and other electrical or equipment problems.
3	H	Performs scheduled preventative maintenance checks at signalized intersections including cleaning of signal heads and lenses.
4	H	Modernizes or revamps existing intersections by installing new equipment while existing signals are still in operation.
5	M	Performs "blue stake" service for traffic signal electric utilities, traffic signal, fiber optics and street lights.
6	S	Performs data entry and inputs updated traffic light and traffic signal data and retrieves service requests.



**JOB REQUIREMENTS:**

-Description of Minimum Job Requirements	
Experience	2-4 years experience. Considerable previous experience required in the same or similar previous positions. The job requires a sound knowledge of common and uncommon techniques, concepts, methods, practices, use of forms, routines, etc., of complex nature.
Education	Two year college program or equivalent combinations resulting in accumulation of similar knowledge or skills.
Technical Skill	Advanced technical skills. Work requires advanced skills, specialized knowledge, and extensive expertise in approaches and systems.
Physical Demands	Work requires heavy physical exertion and effort. Forces exerted are equivalent to lifting between 25 and 50 pounds. The need for physical stamina and endurance is great. The degree of physical strain produced on the job is high. It results in fatigue, and requires periods of rest. Job requirements for manual dexterity and physical manipulation are high. Work could involve the coordination of body movements involving various body postures.
Contacts	Contacts are necessary to perform the job as work involves internal and external contacts for the purpose of providing guidance, instruction or technical advice or for the purpose of explaining business matters by interpreting organizational policy. Improper handling would cause problems in relationships. Work involves occasional contact with people who are upset, uncooperative or have difficulty communicating their requirements and/or an occasional requirement to communicate information that people do not want to hear or may find upsetting.
Responsibility	May show another employee how to perform a task or may have some lead authority over one or more people for a short period of time through the year. May train replacement and/or co-worker in own job functions.
Accountability	Decision/action situations have a moderate impact on the organization. Errors are usually detected after the fact and may result in significant interruption and delay in work output and may have a moderate impact on resources within a department. Errors may have an impact on other departments and external relationships.
Environment	Exposure to physical hazards, health and safety risks, adverse or otherwise undesirable characteristics in the environment such as laboratory or warehouse, machinery vibration and noise, and hazardous chemicals. Personal risks require use of safety equipment or following precautions closely.
Safety	Responsible for personal performance as a source of serious safety risk. Work involves the use of hazardous tools, equipment and/or materials OR ensuring organizational compliance with rules, procedures and legislation for safe operation of facility, safety and development of safe work procedures.
Reading	Intermediate - Ability to read papers, periodicals, journals, manuals, dictionaries, thesauruses, and encyclopedias. Ordinarily, such education is obtained in high school up to college. However, it may be obtained from experience and self-study.
Math	Intermediate - Ability to deal with a system of real numbers; and practical application of fractions, percentages, ratios/proportions and measurement. Ordinarily, such education is obtained in high school up to college. However, it may be obtained from experience and self-study.
Writing	Intermediate - Ability to write reports, prepare business letters, expositions, and summaries with proper format, punctuation, spelling, and grammar, using all parts of speech. Ordinarily, such education is obtained in high school up to college. However, it may be obtained from experience and self-study.
Certifications & Other Requirements	Valid Arizona Class "D" Drivers License upon hire. IMSA Traffic Signal Level II Certification at the time of hire. Must obtain Fiber Optic ITS Level I and IMSA Roadway Lighting Level I within one year of hire.



**OVERALL PHYSICAL STRENGTH DEMANDS:**

-Physical strength for this position is indicated below with “H”-				
Sedentary	Light	Medium	Heavy	Very Heavy
Exerting up to 10 lbs. occasionally or negligible weights frequently; sitting most of the time.	Exerting up to 20 lbs. occasionally, 10 lbs. frequently, or negligible amounts constantly OR requires walking or standing to a significant degree.	Exerting 20-50 lbs. occasionally, 10-25 lbs. frequently, or up to 10 lbs. constantly.	Exerting 50-100 lbs. occasionally, 10-25 lbs. frequently, or up to 10-20 lbs. constantly.	Exerting over 100 lbs. occasionally, 50-100 lbs. frequently, or up to 20-50 lbs. constantly.

**PHYSICAL DEMANDS:**

C Continuously 2/3 or more of the time.	F Frequently From 1/3 to 2/3 of the time.	O Occasionally Up to 1/3 of the time.	R Rarely Less than 1 hour per week.	N Never Never occurs.
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Note: This is intended as a description of the way the job is currently performed. It does not address the potential for accommodation.

-Physical Demand-	-Frequency-	-Brief Description-
Standing	C	Observing work site, observing work duties, communicating with co-workers
Fine Dexterity	C	Computer keyboard, telephone keypad, calculator
Walking	F	To other departments/offices, around work site
Lifting	O	Supplies, files
Carrying	O	Supplies, files
Sitting	O	Desk work, meetings, driving
Reaching	O	For supplies, for files
Handling	F	Paperwork
Pushing/Pulling	O	File drawers, tables and chairs
Climbing	O	Stairs, step stools
Vision	C	Reading, computer screen, driving
Foot Controls	F	Driving
Balancing	O	On step stools
Bending	O	Filing in lower drawers, retrieving items from lower shelves/ground
Crouching	O	Filing in lower drawers, retrieving items from lower shelves/ground
Hearing	C	Communicating via telephone/radio, to co-workers/public
Kneeling	O	Filing in lower drawers, retrieving items from lower shelves/ground
Crawling	R	Under equipment
Twisting	F	From computer to telephone
Talking	F	Communicating via telephone/radio, to co-workers/public
Other (specified if applicable)		



**MACHINES, TOOLS, EQUIPMENT, SOFTWARE, AND HARDWARE:**

Variety of hand tools and small power tools, Lift, generator, variety of testing material, standard office equipment, Microsoft Office, and a variety of related software.

**ENVIRONMENTAL FACTORS:**

C Continuously	F Frequently	O Occasionally	R Rarely	N Never		D Daily	W Several Times per Week	M Several Times per Month	S Seasonally	N Never
-Health and Safety Factors-						-Environmental Factors-				
Mechanical Hazards					C		Extreme temperature			S
Chemical Hazards					O		Wetness and/or humidity			S
Electrical Hazards					C		Respiratory hazards			D
Fire Hazards					R		Noise and vibration			D
Explosives					R		Physical hazards			D
Communicable Diseases					R					
Physical Danger or Abuse					F					
Other:										

**PROTECTIVE EQUIPMENT REQUIRED:**

Safety footwear, hard hat, safety glasses/goggles, harness, reflective vest, gloves, electrician insulated gloves, ear plugs, respirator, dust mask, rain gear, and knee pads.

**NON-PHYSICAL DEMANDS:**

F Frequently From 1/3 to 2/3 of the time	O Occasionally Up to 1/3 of the time	R Rarely Less than 1 hour per week	N Never Never occurs
-Description of Non-Physical Demands-			-Frequency-
Time Pressure			F
Emergency Situation			F
Frequent Change of Tasks			F
Irregular Work Schedule/Overtime			O
Performing Multiple Tasks Simultaneously			F
Working Closely with Others as Part of a Team			F
Tedious or Exacting Work			O
Noisy/Distracting Environment			F
Other			

**PRIMARY WORK LOCATION:**

Office Environment		Vehicle	
Warehouse		Outdoors	X
Shop		Other	
Recreation/Neighborhood Center			