



City of Tempe

PLANT ELECTRICIAN

JOB CLASSIFICATION INFORMATION

<i>Job Code:</i>	402	<i>Department:</i>	Municipal Utilities
<i>Supervision Level:</i>	Non-Supervisor	<i>State Retirement Group:</i>	ASRS
<i>Status:</i>	Classified	<i>Market Group:</i>	Plant Operator II+
<i>Safety Sensitive / Drug Screen:</i>	Yes	<i>Physical:</i>	Yes

Click [here](#) for more job classification information including current salary range.

REPORTING RELATIONSHIPS

Receives supervision from the Plant Superintendent or from other supervisory staff.

MINIMUM QUALIFICATIONS

<i>Experience:</i>	Two (2) years of experience as a skilled journeyman electrician, including experience with 4160-voltage applications. Electrical repair work with pumps, compressors, engines, and related equipment at a water or wastewater utility is preferred.
<i>Education:</i>	High school diploma, GED or equivalency, supplemented by graduation/completion from/of an accredited electrical apprentice or trade school program or licensure/certification related to the electrical trade.
<i>License / Certification:</i>	<ul style="list-style-type: none"> ● Possession of a valid driver’s license. ● Possession of or required to obtain within six (6) months of hire an Arizona Department of Environmental Quality (ADEQ) Grade 1 Water Treatment Certification, an ADEQ Grade 1 Water Distribution Certification depending on assignment.

ESSENTIAL JOB FUNCTIONS

Essential job functions are the fundamental duties of a position: the things a person holding the job absolutely must be able to do.

To actively support and uphold the City’s stated mission and values. To perform a variety of complex technical and skilled electrical work in the planning, installation, alteration, maintenance and repair of equipment for electrical systems in water and wastewater facilities.

OTHER DUTIES AS ASSIGNED

Please note this job description is not designed to cover or contain a comprehensive listing of all activities, duties or responsibilities that are required of the employee for this job. Duties, responsibilities and activities may change at any time with or without notice.

- Follow safety regulations and safe work practices at facilities, including traffic/barricade compliance and confined space entry procedures; adhere to all Occupational Safety and Health Administration and water treatment guidelines.
- Maintain and repair electrical wiring systems, up to and including 4160-volt systems. Perform a variety of maintenance tasks on equipment including motors up to 1250 horsepower, coils, transformers, power panels and motor control centers and control equipment.
- Install, troubleshoot, maintain and repair various types of luminaries and lighting systems including Ultra-Violet disinfection systems.
- Repair sodium hypochlorite, pumps, meters and generating equipment.
- Test, run and maintain generation equipment and complete documentation for regulatory agency requirements.
- Install, test and maintain various uninterruptible power supply systems.
- Install and maintain water pumps and process control equipment at booster stations, well sites, lift stations and other remote sites.
- Assist staff with trade-specific information regarding electrical systems during routine maintenance, new construction and upgrades; establish operating criteria and standard operating procedures (SOPs) for successful operation of electrical systems.
- Repair and maintain chemical feeders, mixers and controllers.
- Operate electrical troubleshooting and monitoring equipment as needed.
- Maintain and calibrate electrical testing equipment, tools and instruments.
- Ability to troubleshoot and repair equipment controlled by programmable logic controllers.
- Inspect and maintain fuses, buss bars, thermocouples and electrical contacts.
- Inspect and repair relays, time clocks, timers, photocells, contactors, solenoids, pressure switches and thermal overload unit.
- Install and inspect transient voltage surge suppressor units and cathodic protection systems.
- Document and maintain online diagrams for all Water Utilities sites.
- Prepare reports of equipment use, time, materials, parts, supplies and facility equipment failures. Update work order status and condition information into the Computer Maintenance Management System (CMMS).
- Create, update, review and finalize work orders in CMMS.
- Perform Confined Space Entry duties as entrant, attendant and/or Authorized Entry Supervisor as plant duties necessitate.
- Perform related duties as assigned.

COMPETENCIES

CLASSIFICATION LEVEL	INCLUDES	COMPETENCIES
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Foundational	All Employees	Inclusion, Communication, Interpersonal Skills, Integrity, Professionalism and Willingness to Learn
Non-Supervisory	In Addition >	Teamwork, Customer Service, Initiative and Dependability / Reliability
Supervisory	In Addition >	Staffing, Monitoring Work, Delegating, Development / Mentoring and Support Others
Manager	In Addition >	Preparing / Evaluating Budgets, Monitoring / Controlling Resources and Motivating / Inspiring
Deputy Director	In Addition >	Entrepreneurship and Networking
Director	In Addition >	Organizational Vision
<p><i>For more information about the City of Tempe's competencies for all classifications:</i> City of Tempe, AZ : Competencies</p>		

JOB DESCRIPTION HISTORY
<p><i>Effective February 2000</i> <i>Revised November 2001</i> <i>Revised June 2005</i> <i>Revised May 2017 (added physical/mental activities)</i> <i>Revised September 2017 (update min qualifications)</i> <i>Revised March 2019 (PW Reorg – Moved to Municipal Utilities)</i> <i>Revised December 2020 (MQ's experience, education, certifications, added assignments per req'd. certifications and edited other duties)</i> <i>Revised November 2022 (remove SBP, update reporting relationships, min qualifications and job duties)</i></p>

PHYSICAL DEMANDS AND WORK ENVIRONMENT

Job Title: Plant Electrician

Job Code: 402

VEHICLE OPERATION	YES	NO
Will this position drive a City vehicle?	X	
Will this vehicle require a Commercial Drivers License?		X

	Never	Occas.	Freq.	Contin.
	0% of time	1-35% of time	36-65% of time	66-100% of time

ENDURANCE				
Sit			X	
Stationary / Stand			X	
Move / Traverse			X	

WORK WITH OR EXPOSURE TO THE FOLLOWING				
Machinery*			X	
Electrical*				X
Power Tools*			X	
Hand Tools*				X
Personal Protective Equipment*				X
Fumes			X	
Computer Software			X	
Chemicals			X	

ENVIRONMENT				
Indoors			X	
Outdoors			X	
Working in or around water				X
Extreme Heat			X	
Extreme Cold	X			
Office Setting		X		
Confined Spaces		X		
Excessive Noise**			X	
Heights		X		
Sewage Exposure		X		
Bodily Fluid Exposure	X			

VISION REQUIREMENTS	YES	NO
Close (clear vision at 20 inches or less)	X	
Distance (clear vision at 20 feet or more)	X	
Color (ability to identify and distinguish colors)	X	
Depth Perception (three-dimensional vision, ability to judge distances and spatial relationships)	X	
Peripheral (ability to observe an area that can be seen up and down or to the left and right while eyes are fixed on a given point)	X	
Ability to adjust focus (ability to adjust the eye to bring an object into sharp focus)	X	
No Special Vision Requirements	X	

Maximum LIFT / CARRY	Lift	Carry
5-25lbs		
26-50lbs	X	X
51-75lbs		
76-100lbs		

Maximum PUSH / PULL	Push	Pull
5-25lbs		
26-50lbs		
51-75lbs		
76-100lbs	X	X

MOVEMENT	YES	NO
Bend / Stoop / Twist	X	
Crouch / Squat	X	
Kneel / Crawl	X	
Above Shoulder Level	X	
Below Shoulder Level	X	
Repetitive Arm Use	X	
Repetitive Wrist Use	X	
Repetitive Hand Use	X	
Climb Stairs / Ladders	X	
Neck Range of Motion	X	
Traverse Uneven Surface	X	
Traverse Even Surface	X	

ADDITIONAL CONSIDERATIONS:
- Must be physically present
- May require working extended hours, including holidays, weekends, nights, and callbacks. Assignments require stand-by shifts outside the normal work schedule.
- May work alone for extended periods of time.
- Other mental attributes essential to this classification.

*DEFINITIONS/EXAMPLES
Machinery: bucket truck, riding mowers, backhoe etc.
Electrical: wiring, outlets, fuses etc.
Power Tools: push mowers, jackhammers, drills, chainsaw etc.
Hand Tools: hammers, wrenches, shovels, wheel barrels, saws etc.
Personal Protective Equipment: respirators, Tyvek coveralls, hard hats, fall protection harness etc.

**** Hearing test is required**