



## JOB DESCRIPTION

Title: **WATER ELECTRICIAN**  
Department: Public Works/Water  
Class Code: 3455  
FLSA Status: Non-Exempt  
Effective Date: July 1, 2018

### GENERAL PURPOSE

Under general supervision from the Water Distribution Supervisor, performs a variety of journey level electrician and Water Distribution Technician duties.

### ESSENTIAL DUTIES

- Installs, maintains, troubleshoots, diagnoses, and repairs electrical and related equipment, primarily for the water department and assists other public works departments as requested.
- Monitors and maintains electrical systems, wiring, and equipment to ensure safety, functionality and power quality.
- Establishes maintenance schedules and performs preventative maintenance based on industry standards and manufacturer recommendations, including but not limited to motors, pumps, pressure reducing valves, control valves, generators and other water system operations equipment.
- Checks and maintains all electrical, fiber optics, SCADA, telemetering and telephone equipment associated with the water system.
- Creates and maintains accurate records of the work performed and materials used, utilizing city works and other methods of record keeping. Maintains an appropriate parts inventory of all the critical mechanical and electrical parts.
- Prepares and maintains data and files required for identifying future infrastructure needs, capital projects, yearly, monthly and weekly reports to maintain the essential operations of the water system.
- Schedules and supervises contractors in the installation, start-up, testing and repair of electrical systems and related work.
- Coordinates with Water Construction Supervisor in scheduling construction crews for electrical, mechanical and hydraulic equipment maintenance and repair.
- Assists Water Distribution Technicians in performing general pump station maintenance duties including but not limited to, maintaining storage reservoir levels, proper flow and pressure in the water system; customer and source meter installation and repairs; water main and service line inspection; public works utility line locating as required by Blue stakes, One Call requirements; review and approval of development plans for water system changes or additions; maintaining and enforcing current backflow and cross connection regulations and water quality, chemistry and bacteriological sampling.

- Responds to trouble calls from Water, Sewer, Streets, Power, Police and Fire Dispatch; assists water, streets and sewer crews as needed.
- Supervises seasonal workers in the maintenance of the water department's properties.
- Performs related duties as required.

## **MINIMUM QUALIFICATIONS**

### Education and Experience

- Graduation from high school and four (4) years of experience in the electrical field with preference given to experience with electrical motors, pumps and control systems including two (2) years of experience in the water industry working on water line maintenance, waterline locations and SCADA operations, or an equivalent combination of education and experience.

### Special Requirements

- Must possess a valid State of Utah Journeyman Electrician License or higher.
- Must possess a valid Utah Class A Commercial Driver License within six (6) months of hire.
- Must possess a Utah State Grade IV Water Distribution Certification within one (6) months of hire.
- Must possess a Utah Class II Backflow Technician Certificate within one (1) year of hire.
- Perform duties on trouble truck and must be generally available and respond within thirty (30) minutes to emergency "call outs" at any time of day, year-round, regardless of weather condition.

### Necessary Knowledge, Skills and Abilities

- Must have working knowledge of SCADA systems and electronic equipment used in the water industry.
- Must have knowledge of current electrical codes.
- Ability to operate a personal computer and various software programs including Microsoft products.
- Ability to read blue prints and electrical schematics.
- Ability to communicate effectively both verbally and in writing.

## **TOOLS & EQUIPMENT USED**

- Motorized vehicles and equipment including but not limited to, dump truck, pickup truck, utility truck, pumps, compressors, generators, common hand and power tools, shovels, wrenches, radio, phone, air purifying respirator, full body protection suit, Self-Contained Breathing Apparatus (S.C.B.A.), backflow assembly test kit, well sounder and line locator, tools and equipment used in electrical work.

## **PHYSICAL DEMANDS**

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- While performing the duties of this job, the employee is regularly required to use hands to handle, feel or operate objects, tools, or controls and reach with hands and arms. The employee frequently is required to stand, walk and talk or hear. The employee is regularly required to sit, climb or balance; stoop, kneel, crouch, or crawl, and smell.

- The employee must frequently lift and/or move up to 25 pounds and occasionally lift and/or move up to 100 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception, and the ability to adjust focus.

**WORK ENVIRONMENT**

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- While performing the duties of this job, the employee regularly works in outside weather conditions. The employee regularly works near moving mechanical parts and is frequently exposed to wet and/or humid conditions and vibration. The employee occasionally works in high, precarious places and is occasionally exposed to fumes or airborne particles, toxic or caustic chemicals, and risk of electrical shock.
- The noise level in the work environment is usually loud.

DEPT/DIVISION APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

EMPLOYEE'S SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

H. R. DEPT. APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_