

# WASTEWATER UTILITY ELECTRICIAN

## GENERAL STATEMENT OF RESPONSIBILITIES

This position is responsible for assisting all departments with electrician needs including the maintenance, inspection, and troubleshooting of electrical systems in the District's wastewater collection and treatment facilities, reclaimed water distribution systems, and building facilities. The incumbent performs skilled journeyman-level electrician work to install, maintain, repair electrical systems and equipment in accordance with standard practices of the electrical trade. The incumbent is guided by policies and assignments received from the Department Managers but is carried out with considerable independent judgment in accomplishing the work. This is a District safety-sensitive position.

## EXAMPLES OF DUTIES TO BE PERFORMED

1. Perform troubleshooting of electrical systems to assist in diagnosing operational issues of mechanical equipment.
2. Assists Collection System Department with electrical work at sewage pump stations.
3. Assists Treatment Operators Department with electrical work at treatment plants, wells, and reclaimed water distribution pump and valve stations.
4. Assists Maintenance Department with electrical circuits and lighting of buildings.
5. Inspects Motor Control Centers, electrical disconnects, junction boxes and other electrical and control cabinets, and perform maintenance such as tighten of lugs and terminals, cleaning panels, proper labeling and identification of circuits, and replacing indicators and lamps as needed.
6. Replace some electrical components such as relays, starters, lighting, and indicators.
7. Maintain and repair 120-volt to 480-volt electrical systems and low voltage circuits for wastewater and reclaimed water facilities.
8. Work together with SCADA/Instrumentation technician to troubleshoot, maintain, or start up existing or new control systems which operate mechanical equipment.
9. Review engineering plans for new or improved District facilities regarding electrical system and safety requirements.
10. Assists in overseeing the work of others contracted to work on District facilities and components.
11. Prepares reports as requested.
12. Prepares and completes work orders using the District's Computerized

Maintenance Management System (CMMS) documenting all inspection and maintenance activities.

13. Initiates requisitions for tools, materials, equipment, and services.
14. Assists in the implementation of the District's safety program.
15. Responds to emergency or abnormal facility situations outside of normal work shift.
16. Performs other duties assigned.

#### REQUIRED KNOWLEDGE AND SKILLS

1. Knowledge of District policies and procedures.
2. Knowledge of methods and techniques of electrical systems troubleshooting, repair, maintenance, and installation.
3. Knowledge of electrical systems, wiring, and how to safely work on them.
4. Knowledge of materials used in system repair and construction.
5. Knowledge of the hazards and applicable safety rules and precautions in equipment operation and construction safety.
6. Skill in the use and care of tools and mechanical equipment.
7. Ability to interpret and work from blueprints and engineering sketches.
8. Ability to detect needed maintenance, repairs, and operational adjustments in equipment.
9. Ability to understand and follow oral and written instructions in the English language.
10. Ability to work in a variety of weather conditions with exposure to the elements.
11. Ability to work with raw sewage, chemicals and electrical systems using normal protective equipment.
12. Ability to work in small, cramped spaces and comply with confined space entry procedures.
13. Ability to lift and move heavy objects (100 lbs.) short distances (100 feet or less).
14. Ability to climb ladders to enter or exit manholes or vaults.

15. Ability to establish and maintain good working relations with other employees and the general public.
16. Ability to work independently.
17. Ability to lead and train others in similar work.
18. Ability to plan and direct the work of subordinates.

#### REQUIRED TRAINING AND EXPERIENCE

This position requires graduation from high school or the equivalent. The position requires at least one year's experience as a wastewater collection system or treatment plant operator and an AZ Operator certification at any level. The position requires work experience as a journeyman electrician or apprentice for a minimum of four years. Other combinations of experience and education which provide the knowledge and skills required to perform the job may be considered.

#### ADDITIONAL REQUIREMENTS

1. Must pass a pre-employment physical and drug test.
2. Must possess an Arizona Department of Environmental Quality Wastewater Collection or Treatment Certification of any level, or ability to obtain within one year of employment.