

Master Electrician:

SUMMARY OF POSITION

Under limited supervision, performs skilled electrical work in the installation, alteration, maintenance, and repair of electrical systems, equipment and fixtures up to 600 volts AC associated with water treatment and distribution and wastewater collection and treatment.

Performs a variety of routine and complex technical work inspecting electrical work in building, lift station, pump station and other utility construction to ensure that the National Electrical Code (NEC), other related codes, and WCID #17 standards are met.

DUTIES AND RESPONSIBILITIES

Typical duties include, but are not limited to, the following:

Install control panels, conduits, wires, relays, pull boxes and switches required in making additions, extensions or alterations in electrical systems.

Repair and /or replace defective parts in control panels, motors, air conditioners, generators, pumps, relays, controllers, switches, PLC's, SCADA equipment, and other fixtures and appliances.

Installs, tests, troubleshoots, and performs preventative maintenance and repairs to a variety of high voltage equipment including variable frequency drives (VFDs), motors, pumps, pumps, generators, transformers, switchgear, motor control centers (MCC), transfer switches, control devices, and instruments.

Disconnect electrical sources, uses lockout/tagout procedures where required, and re-establishes electrical service after investigation, maintenance and repair of equipment.

Test, troubleshoot and repair defects in electrical circuits or equipment.

Operate a variety of diagnostic instruments and a variety of hand and electric tools.

Operate 6,000lbs crane truck for repair of pumps and equipment as necessary.

Performs such other duties as may be related.

Inspects electrical wiring installations or alterations in industrial and commercial structures to ensure compliance with rules and regulations for safe wiring.

Writes correction notices where unsafe or hazardous wiring conditions are found; re-inspects installation to ensure that corrections have been made

Checks plans and blueprints for electrical projects to determine compliance with the National Electrical Code (NEC), State Rules and Regulations, and WCID #17 electrical standards.

DESIRED MINIMUM QUALIFICATIONS AND SKILLS

Master Electrician-Licensed through TDLR.

Must have 2-4 years' experience working as master electrician

Practices, methods, techniques, tools and equipment used in the installation, maintenance and repair of mechanical equipment and machinery common to water and wastewater collection systems.
E/P actuator troubleshooting experience.
Basic first aid procedures.
Standard practices, materials, tools, and equipment of the electrical trade.
Basic electrical theory and electrical safety procedures.
Working knowledge of Applicable National Electrical Code (NEC).
Routine motor maintenance including preventative maintenance and minor repair such as bearing replacements.
Valid Texas Driver's license.
Maintenance Electrician license a bonus
Working knowledge of construction and operation of water treatment, distribution, and wastewater treatment and collections systems.
Basic to advanced electrical troubleshooting.

Ability to:

Apply WCID#17's safety standards to prevent accidents.
Understand and carry out oral and written instructions and prepare written reports of activities performed.
Establish and maintain effective working relationships with co-workers.
Deal effectively with the public in stressful situations.
Tolerate outside working conditions, including exposure to adverse weather conditions.
Read and understand electrical and mechanical equipment O&M manuals, including schematics, drawings, blueprints, and technical data instructions.
Locate and adjust/repair defects in electrical systems and equipment.
Use and care for tools and equipment.
Work overtime as required.
Work on-call as required.
Work in confined spaces such as manholes, wet wells, and valve boxes.
Perform work in compliance with the National Electric Code (NEC).
Wear and use a Self-Contained Breathing Apparatus (SCBA).
Climb vertically 260+ feet.

Salary is dependent upon qualifications – excellent company benefits offered include medical, dental, deferred compensation plans 401a and 457b, paid holidays, vacation time, and sick time. Additional benefits include FSA for medical/childcare, vision coverage, voluntary life and AD&D insurance, education tuition assistance, Employee Fitness Program, a uniform allowance, and use of District vehicles when appropriate.