

SENIOR ELECTRICIAN

DEFINITION: Under general direction, performs journey level electrical work in installing, connecting, maintaining, repairing, modifying, trouble shooting and testing electrical wiring lines, fixtures, distribution panels, power and control circuits and numerous electrical equipment; may serve as lead electrician on most work assignments; performs related work as assigned.

ESSENTIAL FUNCTIONS: This list is ILLUSTRATIVE ONLY and is not a comprehensive listing of all functions and tasks performed by incumbents of this class.

TASKS:

Performs the more complex electrical work assignments, involving the repair, installation, and modification of electrical distribution lines used in supplying a wide range of electrical voltage and power; plans and lays out approaches in trouble shooting faults and/or defects in the electrical line with little guidance or supervisory direction; lays out work plan according to prescribed drawings, sketches, blue prints, wiring diagrams, and technical manuals; assures safe operation of all new and existing electrical lines, circuits and controls replaced and/or repaired.

Performs preventative maintenance, repairs or replacement of electrical motors; tests circuitry on various controls on equipment failure; upgrades electrical apparatus; replaces bearings on motors; troubleshoots and repairs solar systems; maintains, repairs and replaces light fixtures, ballasts, sockets, starters, outlets, and photo cells; inspects the work produced by other electricians.

Services, installs or replaces transformers, breakers, capacitors, fuses, thermostats, heating elements, contactors, relays and heat tapes; maintains, repairs or replaces large or complicated (HVAC) heating and cooling units, boilers, and air handlers; completes estimates of materials and labor; orders supplies and materials; completes work order forms.

KNOWLEDGE, SKILLS AND OTHER CHARACTERISTICS:

Knowledge of National Electrical Code.

Knowledge of technical electrical contracting methods, practices and procedures.

Knowledge of the repair of electrical motors and systems.

Knowledge of the building codes and regulations related to electrical installation.

Knowledge of occupational safety and health regulations and practices.

Knowledge of equipment, supplies and specialty tools related to electrician trade.

Knowledge of sources of supply, prices, and grades and qualities of a variety of materials, supplies and equipment.

Knowledge of project management and cost estimation.

Skill in safely installing, repairing and replacing electrical wiring systems.

Skill in safely utilizing a variety of power and hand tools

Skill in estimating costs of materials and labor.

Skill in scheduling and managing projects.

Skill in inspecting electrical work for compliance with National Electrical Code.

Skill in establishing and maintaining effective working relationships.

PHYSICAL REQUIREMENTS AND WORK ENVIRONMENT: Work requires lifting, carrying materials, equipment and supplies weighing up to 50 pounds; climbing ladders, pulling conduit through walls; crawling, kneeling and working in confined spaces.

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MINIMUM QUALIFICATIONS:

- A high school diploma or GED; and (4) four years of progressively responsible journey level commercial or residential electrical installation and repair experience.

PREFERRED QUALIFICATIONS:

- Experience reading and interpreting blue prints
- Familiar with the most updated National Electrical Codes (NEC) codes.

SPECIAL REQUIREMENTS:

- Possess a State Journeyman Electrician License and a valid state driver's license.
- Some positions may require additional certifications or licenses depending on area of assignment.

Supplemental Requirements:

Incumbent must obtain a Navajo Nation Vehicle Operator's Permit within 90 days from date of hire.

Depending upon the needs of the Nation, some incumbents of the class may be required to demonstrate fluency in both the Navajo and English languages as a condition of employment.