

**DESCRIPTION:** Under limited supervision, and within the scope of licensure, performs skilled electrical work in the installation, alteration, repair, and maintenance of electrical systems, fixtures, and related electrical equipment. Incumbent works independently or as a member of an electrical crew; performs related work as assigned.

**DISTINGUISHING CHARACTERISTICS:** (A position is assigned to this class based on the scope and level of work performed as outlined below.)

This class is a single position class and not part of a class series. Incumbent is required to be a licensed electrician at the Journeyman Electrician and/or Electrical Contractor level and performing work within the scope of licensure a preponderant period of time. Positions which hold the Electrical Contractor license may approve work of Journeyman Electricians or Registered Apprentice Electricians. Registered Apprentice Electricians are not classified in this class; however, may be classified to a class within the Facility Maintenance class series.

**EXAMPLES OF WORK:** (A position may not be assigned all the duties listed, nor do the listed examples include all the duties that may be assigned.)

Installs, alters, troubleshoots, repairs, and maintains wiring systems, domestic and commercial appliances, solid-state electronic equipment, machinery, motor generators, overhead circuits, underground circuits, pole lines, and de-energized high voltage equipment associated with power generation and interior distribution systems.

Lays out, assembles, installs, tests, and maintains complex conduit and wiring systems, electrical fixtures, and apparatus such as switches, outlets, light fixtures, exhaust and circulation fans, pull boxes, switch panels, and bus bars; tests circuits for continuity and proper connections.

Installs, calibrates, repairs, and maintains electric power system relays and meters; installs, repairs, and maintains high voltage fuses, link boxes, cutouts, and transformer connections; operates the main transformer bank switch gears and emergency generator.

Installs, repairs, and maintains electrical motors and generators, seats and replaces brushes, cleans and oils motors, and does other electrical and limited mechanical work in repairing and replacing parts.

Installs and performs electrical repairs on specialized electrical equipment such as refrigeration units, laundry equipment, kitchen appliances, dishwashers, HVAC systems, water heaters, and other similar equipment.

Performs minor repairs and adjustments on passenger and freight elevators.

Performs preventative maintenance inspections of electrical equipment and systems, and initiates work orders to prevent breakdowns and to correct deficiencies.

Cleans, repairs, and maintains all tools and equipment used in the electrical trade.

Determines procedures, equipment, and line composition for installing, constructing, repairing, and servicing electric power systems.

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Estimates time, cost, and materials required for the completion of work orders, and requisitions materials as necessary; obtains proper permit to accomplish work to be completed.

Advises in the selection, ordering, and storage of electrical supplies and equipment.

Instructs helpers in electrical work; conducts informal apprenticeship training.

**KNOWLEDGE, SKILLS, AND ABILITIES REQUIRED:** (These are needed at entry level to perform the work assigned.)

Knowledge of: the principles of electricity, to include computation and measurement of common properties such as resistance, inductance, capacitance, voltage, and current; all types of electrical systems; the qualities and adaptability of various electrical materials; local, state, and federal electrical codes; materials and equipment costs; the methods, practices, materials, and tools of the electrical trade; the occupational hazards and safety precautions of the electrical trade; preventative maintenance on electrical systems and equipment.

Skill in: installation and maintenance of electrical systems.

Ability to: read and interpret electric schematic and one-line diagrams; analyze all safety requirements applying to installation and maintenance of electric supply overhead and underground lines; make accurate estimates of time, cost, and materials required to complete a work order; requisition materials, supplies, and equipment needed for electrical jobs; ~~effectively~~ work with all electrical materials and equipment; perform skilled electrical work; use/operate and care for the tools and equipment used in the electrical trade; understand and follow instructions.

**MINIMUM QUALIFICATIONS:** (Applicants will be screened for possession of these qualifications. Applicants who need assistance in the selection process should request this in advance.)

Possession of a Nebraska Journeyman Electrical license OR Electrical Contractor license or eligibility to become licensed in Nebraska.

**LEGAL REQUIREMENTS:** (These qualifications are mandated by federal/state laws, statutes, and/or regulations.)

Per the Nebraska State Electrical Act (Neb. Rev. Statutes 81-2101-81-2143), a current Electrical Contractor license is required to obtain electrical permits, and a current Journeyman Electrical license is required to perform electrical installation.

**SPECIAL NOTES:**

State agencies are responsible to evaluate each of their positions to determine their individual overtime eligibility status as required by the Fair Labor Standards Act (FLSA).