



**Job Code:** 2324  
**Grade:** X-IBEW  
**HCWR:** N

**Job Title**  
Electrician

**Department**  
Skilled Trades

**Job Summary**

Plans layout and wiring of electrical fixtures, apparatus and control equipment. Installs, repairs and modifies new or existing equipment and systems to minimize waste of materials, provide access for future maintenance, and avoid unsightly, hazardous, and unreliable wiring consistent with specifications and local electrical codes.

**Typical Duties**

- Prepares sketches showing location of wiring and equipment, or follows diagrams or blueprints, insuring that concealed wiring is installed before completion of future walls, ceilings and flooring.
- Measures, cuts, bends, threads, assembles, and installs electrical conduit, using such tools as hacksaw, pipe threader, and conduit bender. Pulls wiring through conduit. Splices wires by stripping insulation from terminal leads with knife or pliers, twisting or soldering wires together, and applying tape or terminal caps. Connects wiring to lighting fixtures and power equipment, using hand-tools.
- Installs control and distribution apparatus, such as switches, relays, and circuit-breaker panels, fastening in place with screws or bolts, using hand tools and power tools.
- Connects power cables to equipment, such as safety switches or motor, and installs grounding leads. Tests continuity of circuit to insure electrical compatibility and safety of components, using testing instruments, such as ohmmeter, ampmeter, and voltmeter.
- Observes functioning of installed equipment or system to detect hazards and need for adjustments, relocation, or replacement.
- Repairs faulty equipment or systems as needed.
- Maintains work log records. Requisitions parts, materials and equipment as needed and according to specifications.

**Minimum Qualifications**

- High School diploma or GED
- Successful completion from an approved and recognized apprenticeship program or equivalent pursuant to attaining Journeyman status as an Electrician

**Preferred Qualifications**

- NA

**Knowledge, Skills, Abilities and Other Characteristics**

- Thorough and extensive of the principles, methods, and technologies relative to electrical construction, installation and repair
- Skill in installing, operating, testing, dismantling and repairing all types of electrical equipment used in building construction



**Knowledge, Skills, Abilities and Other Characteristics**

- Skill identifying electrical problems, and repairing and maintaining motors, lighting, power, control, fire alarm, high voltage and low voltage systems
- Proficiency in interpreting and following blueprints, electrical diagrams, local electrical codes and computing distances
- Skills in installation of all conduit systems, wiring, electrical devices, lighting fixtures, motors, switches, panels, motor control centers and switchboards
- Knowledge of city, state, and local building codes as they relate to electrical construction
- Ability to travel extensively to work assignments throughout Cook County Health, for which the employee must provide his or her own adequate means of transportation
- Ability to perform various types of physical exertion including, but not limited to climbing, lifting, pulling, pushing, and moving moderate to heavy weight

**Physical and Environmental Demands**

This position is functioning within a healthcare environment. The incumbent is responsible for adherence to all hospital and department specific safety requirements. This includes but is not limited to the following policies and procedures: complying with Personal Protective Equipment requirements, hand washing and sanitizing practices, complying with department specific engineering and work practice controls and any other work area safety precautions as specified by hospital wide policy and departmental procedures.

**The above statements are intended to describe the general nature and level of work being performed by people assigned to this classification. They are not intended to be construed as an exhaustive list of all responsibilities, duties and skills required of the personnel so classified.**

**For purposes of the American with Disabilities Act, “Typical Duties” are essential job functions.**