

## LANCASTER COUNTY MASTER ELECTRICIAN

### NATURE OF WORK

This is licensed electrical work in the installation, repair and maintenance of electrical systems, appliances and equipment.

Work involves directing and professionally overseeing or supervising the work of subordinate electrical and/or maintenance staff on assigned projects, installing, repairing, and maintaining electrical systems, components and fixtures and providing material, personnel and time estimates for scheduled projects. Work also includes diagnosing and trouble-shooting electrical malfunctions of mechanical and appliance systems and modifying existing power supply systems to install new electrical circuitry, light fixtures and alarm systems. An employee within this classification is expected to work independently within State and City electrical code and safety requirements and recommendations. General supervision is received from an administrative superior with work reviewed in the form of periodic inspections, results achieved and adherence to required regulatory and safety requirements. Supervision may be exercised over subordinate electrical and/or maintenance personnel.

### EXAMPLES OF WORK PERFORMED

Direct, inspect and professionally oversee or supervise the work of subordinate electrical and/or maintenance staff on assigned building projects; provide material, personnel and time estimates for scheduled projects; advise and obtain necessary electrical work permits.

Install, modify, repair and maintain electrical systems, components and fixtures; modify existing power supply systems to install new electrical circuitry, light fixtures and alarm systems; install new electrical panels with circuit breakers; install necessary circuitry to support computer networks; conduct tests on electrical equipment using ammeter, volt-ohmmeter and related testing equipment.

Diagnose and trouble-shoot electrical malfunctions of heating, air conditioning, mechanical and appliance systems; identify and obtain needed parts and materials and initiate repairs; perform preventative electrical maintenance and repair on lighting, heating, ventilation, air conditioning, alarm and pneumatic systems and equipment.

Maintain shop and work area including maintenance and repair of associated equipment and tools; perform general building maintenance and repair functions as assigned; complete repair records and reports, as required.

### DESIRABLE KNOWLEDGE, ABILITIES AND SKILLS

Thorough knowledge of approved methods and practices of skilled installation, alteration, repair and maintenance of electrical wiring and equipment.

Thorough knowledge of Federal, State and City electrical code requirements and specifications.

Thorough knowledge of the occupational hazards associated with electrical work and safety measures to prevent accidents and injury.

Knowledge of first aid measures for victims of electrical shock.

Ability to operate electrical testing equipment including ammeter, flow and pressure transmitter, calibrator, station simulator, volt-ohmmeter, Wiggins tester, Ampere Probe & Megger and related equipment used in testing electrical currents, capacities and grounding.

Ability to read and work from electrical drawings, schematics and blueprints.

Ability to communicate effectively both orally and in writing.

Ability to establish and maintain effective working relationships with co-workers, contracted service providers and the general public.

Skill in the use of tools and equipment used in the maintenance, repair and installation of electrical systems, appliances and equipment.

#### MINIMUM QUALIFICATIONS

Graduation from high school or equivalent supplemented by courses in electrical installation, maintenance and repair or related field and four years of experience in the installation, modification, repair and maintenance of electrical systems, appliances and equipment at the journeyman level or any equivalent combination of training and experience that would provide the desirable knowledge, abilities and skills.

#### NECESSARY SPECIAL REQUIREMENTS

Must be licensed and maintain licensure as a Class A Master Electrician with the City of Lincoln and State of Nebraska.

Possession of a valid driver's license when operating a vehicle is necessary for the satisfactory performance of assigned duties.

When operating equipment that falls under the Nebraska Commercial Driver's License (CDL) status, the employee is required to possess and maintain the proper license and endorsement within 60 days.