



# CITY OF OMAHA CLASS SPECIFICATION

**CLASSIFICATION TITLE: MASTER ELECTRICIAN**

**BARGAINING UNIT:** [CIV BARGAINING](#)

**CODE NUMBER:** 6250

**PAY RANGE CODE:** [06145](#)

**REVISION DATE:** 9/28/17

## **NATURE OF WORK:**

This is skilled master level work involving the installation, maintenance, and repair of electrical systems and equipment at City facilities. An incumbent in this classification will also, when required, take out work permits. Work is usually assigned in general terms, and actual work methods used to complete projects are planned and executed independently.

**ESSENTIAL FUNCTIONS:** *(Any one position may not perform all the duties listed, nor do the listed examples include all the duties that may be performed in positions allocated to this class.)*

Inspects, tests, repairs, replaces, or installs new conduit and electrical wiring, fixtures, panels, controls, switches, limiting devices, motors, starters, vacuum tubes, solid state components, water heaters, furnaces, and air conditioner blowers.

Replaces lamps and repairs or replaces parts of fixtures or tower lights at ball fields, swimming pools, and tennis courts.

Replaces cutouts and makes splices to high voltage equipment (over 600 volts).

Monitors the condition and performance of auxiliary power systems and makes repairs as needed.

Leads department electrical projects.

Reads and interprets sketches, wiring diagrams, blueprints, technical manuals, and design specifications.

Using a boom truck, replaces flags, poles, pulleys, and other equipment.

Works with event officials to ensure that electrical specifications are met.

Completes work orders and keeps records of time and materials needed.

Provides recommendations for the purchase of electrical equipment and supplies.

Takes out work permits on projects requiring them.

Maintains regular job attendance in accordance with a schedule established for the position by the supervisor.

Performs other related duties as assigned or as the situation dictates within the scope of this classification.

**REQUIRED KNOWLEDGE, SKILLS, AND ABILITIES:**

Knowledge of and ability to operate a computer or other technology using standard or customized computer or systems software applications appropriate to the assigned tasks.

Knowledge of electrical laws and theories as related to the installation, testing, and repair of electrical service.

Knowledge of the standard practices, techniques, materials, tools, and equipment of the electrical trade.

Knowledge of the types and capacities and use of electrical wiring, switches, controls, panels, and outlets.

Knowledge of city, state, and national electrical codes.

Knowledge of the correct safety procedures to use when working with electricity.

Skill in the use of tools, equipment, and materials used in the installation, maintenance, and repair of electrical service.

Ability to read and interpret electrical wiring diagrams, schematics, and plans.

Ability to use electrical test equipment and tools of the trade.

Ability to diagnose equipment for electrical problems.

Ability to understand oral or written instructions.

Ability to adhere to safety policies, procedures, and guidelines.

Ability to maintain effective working relationships with superiors, other city employees, members of the public, and contractors and their agents.

Ability to learn and adapt to advances in computer and electronics device technology and software.

Ability to sit up to 25% of the time and to squat, kneel, crouch, crawl, stand, walk, and lift for eight hours per day or more and to climb, reach, balance, bend, stoop, push, and pull for 76 to 100% of the time.

Ability to move objects in excess of one hundred (100) pounds of force up to 33% of the time, objects in excess of fifty (50) pounds 34 to 66% of the time, and objects in excess of twenty (20) pounds 67 to 100% of the time.

**EDUCATION AND EXPERIENCE:** *(The knowledge, skills, and abilities above may be acquired through, but are not limited to, the following combination of education and/or experience.)*

High school graduation or its equivalent preferred.

**SPECIAL QUALIFICATIONS**

Must hold a valid Class A Electrical Contractor License issued by the State of Nebraska and must be registered with the City of Omaha at the time of application.

Must possess a valid motor vehicle operator's license from the time of appointment.

Must possess a forklift operator's permit by the end of the probationary period.

**WORKING CONDITIONS:** *(The conditions herein are representative of those that must be met by the employee to successfully perform the essential functions of the job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential job functions.)*

Work is performed both in and out of doors and in all weather conditions, amid high noise levels, moving machinery parts, and electrical currents, and in high places and in confined spaces.

**EQUIPMENT OPERATION:** *(Any one position may not use all of the tools and equipment listed nor do the listed examples comprise all of the tools and equipment that may be used in positions allocated to this classification.)*

Service Truck	Hand and Power Tools	High Reach Boom Truck
Power Bender	Forklift	Power Pipe Threader
Trencher	Tug Tractors	Generators
Computer	Electronic Locating Devices	
Scissor Lift High Reach Truck		
PLC Programming Equipment		
Electrical Measuring and Diagnostic Equipment		

Previous Revision Date(s): 12/19/00  
11/21/02  
4/30/09