



**Code: 5081**

Family: Construction, Maintenance, and Skilled Labor  
Service: Operation and Construction  
Group: Electrical and Mechanical  
Series: Electrical Construction and Maintenance

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## **CLASS TITLE: LINEMAN**

### **CHARACTERISTICS OF THE CLASS**

Under supervision, installs, repairs, and tests aerial and underground electrical wires, fixtures, and related equipment, and performs related duties as required

### **ESSENTIAL DUTIES**

- Installs and connects electrical lines, fiber optics, and cables to power sources
- Splices and terminates copper and fiber optic cables
- Cuts, bends, and fits conduit into trenches and installs new electrical wire
- Relocates existing electrical installations and fixtures to facilitate street construction projects
- Performs voltage tests to determine type of wire and level of functionality
- Locates and repairs breaks in underground electrical lines
- Removes decayed or broken cable and installs new conduit pipe and cable
- Assembles and installs electrical fixtures (e.g., light poles, lamps, traffic signal heads, surveillance cameras)
- Tests fire alarm circuits and the timing of traffic signals and street lamps to ensure proper operation
- Prepares work activity reports
- Operates an aerial boom from a line truck to reach aerial wires, as required
- Marks cable locations on streets to prevent damage by other work crews and contractors, as required

**NOTE:** *The list of essential duties is not intended to be inclusive; there may be other duties that are essential to particular positions within the class.*

### **MINIMUM QUALIFICATIONS**

#### **Education, Training, and Experience**

- Successful completion of a US Department of Labor registered lineman apprenticeship training program and journeyman status; or an equivalent combination of education, training, and experience

#### **Licensure, Certification, or Other Qualifications**

- A valid State of Illinois driver's license is required
- Some positions may require to have the permanent use of an automobile that is properly insured, including a clause specifically insuring the City of Chicago from accident liability

### **WORKING CONDITIONS**

- Exposure to outdoor weather conditions
- Exposure to fumes or dust
- Exposure to hazardous conditions (e.g., traffic, heavy machinery)
- Work performed above or below ground level

- Work performed using scaffolds and ladders
- Work performed at great heights with the use of safety belts

### **EQUIPMENT**

- Hand tools (e.g., sledge hammer, wire strippers, wire cutters, head wrench)
- Power tools (e.g., hydraulic boom, chipping gun, roto-hammer, cutting torch)
- Personal protective equipment (e.g., hard hat, shoes, glasses, gloves, vest, pads)
- Safety devices or equipment (e.g., cones, barricades, metal plates, scaffolding, ropes)
- Electrical testing and monitoring equipment
- Measuring tools (e.g., tape measure, ruler, calipers, measuring wheel)
- Ladders

### **PHYSICAL REQUIREMENTS**

- Heavy lifting (up to 75 pounds) is required
- Ability to stand and walk for extended or continuous periods of time
- Ability to quickly bend, stretch, twist, or reach out with one's body, arms, and/or legs
- Ability to climb staircases, ladders, and/or step stools
- Ability to access difficult to enter spaces (e.g., roofs, basements, cramped quarters)
- Ability to operate applicable hand tools, power tools, and equipment
- Ability to tolerate heights while working

### **KNOWLEDGE, SKILLS, ABILITIES, AND OTHER WORK REQUIREMENTS**

#### **Knowledge**

Some knowledge of:

- \*repair and maintenance procedures applicable to the lineman/electrical trade
- \*fundamental principles of electricity
- \*use of safety equipment and protective gear
- \*applicable test instruments, hand and power tools
- \*applicable safety and code standards specific to the lineman/electrical trade
- work procedures in the repair and installation of overhead and underground electrical power lines

Knowledge of applicable City and department policies, procedures, rules, and regulations

#### **Skills**

- \*ACTIVE LISTENING - Give full attention to what other people are saying, taking time to understand the points being made, ask questions as appropriate, and not interrupt at inappropriate times
- \*CRITICAL THINKING - Use logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions, or approaches to problems
- EQUIPMENT SELECTION - Determine the kind of tools and equipment needed to do a job
- INSTALLATION - Install equipment, machines, wiring, or programs to meet specifications

- TROUBLESHOOTING - Determine causes of operating errors and decide what to do about it

**Abilities**

- COMPREHEND ORAL INFORMATION - Listen to and understand information and ideas presented through spoken words and sentences
- SPEAK - Communicate information and ideas in speaking so others will understand
- COMPREHEND WRITTEN INFORMATION - Read and understand information and ideas presented in writing
- REASON TO SOLVE PROBLEMS - Apply general rules to specific problems to produce answers that make sense
- RECOGNIZE SPACIAL ORIENTATION - Know one's location in relation to the environment or to know where other objects are in relation to one's self

**Other Work Requirements**

- INITIATIVE - Demonstrate willingness to take on job challenges
- STAMINA - Demonstrate energy and stamina to accomplish work tasks
- COOPERATION - Be pleasant with others on the job and display a good-natured, cooperative attitude
- DEPENDABILITY - Demonstrate reliability, responsibility, and dependability and fulfill obligations
- ATTENTION TO DETAIL - Pay careful attention to detail and thoroughness in completing work tasks

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All employees of the City of Chicago must demonstrate commitment to and compliance with applicable state and federal laws, and City ordinances and rules; the City's Ethics standards; and other City policies and procedures.

The City of Chicago will consider equivalent foreign degrees, accreditations, and credentials in evaluating qualifications.

\* May be required at entry.

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City of Chicago  
Department of Human Resources  
April, 2014

Licensure, Certifications or Other Qualifications updated: September, 2016