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
- Must 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

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.