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**FULL TIME JOURNEYMAN LINE MECHANIC
POSITION DESCRIPTIONS**

August 2016

GENERAL DESCRIPTION OF JOURNEYMAN LINE MECHANIC

Performs a variety of manual, clerical, and leadership tasks involved in the installation, maintenance and repair of both overhead and underground electric power distribution systems working with voltages ranging from 120v to 25kv. Requires use of precautionary work methods and safety equipment due to electrical hazards present when working on or near energized conductors and electrical equipment.

Employees in this class are in a position which demands the ability to work safely by themselves and as a member of a crew. Work performed is of skilled nature which requires previous experience, or training as an Apprentice Lineman. Work is normally performed under the instructions of a Line Crew Foreman or the Electrical Superintendent. The employees in this class sometimes exercise leadership over line crew personnel and other employees occasionally assigned.

Since much of the work is done with energized lines and equipment, sometimes in unfavorable weather conditions, the employee must use skill and care to protect safety, the safety of his co-workers, and the public.

Also does related work as necessary.

EXAMPLES OF WORK

The following are examples only, they are not all-inclusive and may vary from time to time.

1. Performs all duties of a four-year apprentice lineman, including:
 - Practices proper safety precautions for performing electric power distribution work.
 - Recognizes equipment and materials used in electric distribution.
 - Understands electricity basics, codes, and standards.
 - Performs groundman duties such as:
 - Assembles distribution hardware.
 - Lays underground cable.
 - Cleans worksite.
 - Provides maintenance and minor repair to vehicles and equipment.
 - Keeps shop clean and tools and equipment organized.
 - Locates URD wire.
 - Performs tree trimming duties, such as:
 - Trims and removes trees.
 - Maximizes clearance of electric lines.
 - Installs and removes meters.
 - Installs, replaces, and repairs secondary and service conductors.
 - Uses backhoes and excavators to dig trenches and set equipment boxes.
 - Terminates 200 amp and 600 amp underground elbows, splices and associated parts.

- Builds transformer settings.
 - Performs switching and sectionalizing.
 - Strings new wire and transfers old wire to new poles.
 - Works on all energized equipment up to 25 KV.
 - Does related work as required.
2. Operates a variety of equipment, vehicles and tools near and around electrical distribution lines. Operates hot line tools to connect and disconnect system lines and components.
 3. Installs & sets poles, pole hardware and such auxiliary equipment as transformers, lightning arresters, switches, fuses and insulators, using hand tools.
 4. Installs, replaces, and maintains street lights.
 5. Determines and locates cause of current interruptions.
 6. Recommends measures to improve production methods, equipment, performance, quality, and efficiency.
 7. Tests power lines and auxiliary equipment to identify defective voltage regulators, transformers, switches, and related accessories causing line disturbances, such as voltage fluctuations, using direct reading and recording electrical testing instruments.
 8. Climbs poles to repair or replace overhead conductors, switches, transformers, fuses, and related equipment, using precautionary work methods and insulated tools, ladders, and platforms when working on or near energized circuits.
 9. May install watt-hours meters and connect service drops between power line and consumer.
 10. May respond to fire alarms to disconnect power from buildings and extinguish fires on power poles or other utility property.
 11. Follows work order and accounting procedures as necessary.
 12. Works in accordance with applicable codes rules and safety manuals.
 13. Makes decisions in the field as required.
 14. Maintains daily time card. Also maintains materials reports when requested by Line Crew Foreman.
 15. Under the direction of Electric Superintendent, conducts load and voltage surveys and related electrical repair work.

16. Performs a portion of the maintenance and operation of substation equipment energized 600 volts or less.
17. Operates utility's SCADA system when necessary.
18. Operates equipment, including but not limited to:
 - Backhoe with Breaker
 - Digger Truck
 - Line/Bucket Truck
 - Forklift
 - Chainsaw
 - Air Hammer
 - Dump Trucks
 - Vac trailer
 - Backlot Machine
19. Performs weekday after hours and weekend stand-by duty on rotational basis. Available for occasional overtime and after-hours calls.
20. Maximizes own work output and work quality, and that of others when crews are assigned.
21. Presents a positive image of the utility. Provides exceptional customer service to customers and builds effective working relationships w/City personnel.
22. Receives and responds to customer inquiries and complaints and performs corrective action in response to customer inquiries and complaints upholding our high level of customer service.
23. Interacts with customers regarding temporary power outages, tree trimming operations, and possible damage.
24. Reads and understands system maps, and if corrections are needed, report this to foreman or superintendent.
25. Reports any and all safety violations, or concerns in a timely manner.

QUALIFICATIONS

General

- Perform work safely both alone and as a member of a crew.
- Understand and follow oral and written instructions.
- Work diligently with little supervision.
- Perform strenuous tasks under all weather conditions.
- Maintain good physical condition.

- Thorough knowledge of modern principles and practices of electric distribution construction and maintenance.
- Thorough knowledge of the safety precautions necessary in electric power distribution work.
- Good knowledge of utility's circuits and service area.
- Ability to detect, diagnose, and correct troubles in system equipment and circuits.
- Skillfully use hand tools or machines needed for your work.
- Read blueprints or drawings of the items to be made or repaired.
- Measure, cut or otherwise work on materials or objects with great precision.
- Use arithmetic or shop geometry to figure amounts of material needed, and dimensions to be followed.
- Picture what the finished product will look like.
- Accept responsibility for the accuracy and quality of your work.
- Trustworthy, honest, motivated, team-oriented.
- Ability to work with different kinds of people.
- Receptive to direction.
- Proactive problem solving.

Education & Experience:

- High school diploma or equivalent.
- Completion of requirements for fourth year indentured electrical lineman apprentice training specified by the Municipal Training and Safety Committee at Chippewa Valley Technical College, or equivalent experience approved by management.
- Possession of a valid Wisconsin motor vehicle operator's license and Class A commercial drive license for air brake and combination trailer.
- Must be proficient on computers and /or tablets in accessing maps and various databases. Ability to learn new software and adapt to changing technologies.
- CPR trained and certified and first aid.

Physical Demands:

- Ability to exert heavy physical effort in moderate to heavy work, typically involving some combination of climbing, balancing, stooping, kneeling, crouching, crawling, reaching, handling, lifting, carrying, pushing and pulling up to 100 lbs with frequency and/or carrying of objects weighting up to 50 lbs.
- Ability to work from heights for long periods of time.
- Ability to coordinate eyes, hands, feet, and limbs in performing skilled movements involved in repair.

Environmental Conditions:

- Outside: Likely to spend more than 75% of time outside. No effective protection from weather.
- Hazards: Situations in which the individual is exposed to definite risk of bodily injury.

Math Skills:

Practical application of fractions, percentages, ratios and proportions, algebra, geometric construction, and trigonometry.

Language Skills:

- Must have developed language skills in order to be able to:
 - Read maps, periodicals, journals, and manuals.
 - Write summaries and reports, using prescribed format.
 - Participate in discussion and debates. Speak spontaneously on a variety of subjects.
 - Communicate effectively verbally and through written communications with customers, co-workers, law enforcement personnel, electricians, contractors, tree trimmers, and other City employees.