



## Position Description

**Position:** Journeyman Electrician  
**Department:** Operations  
**Reports to:** Maintenance Supervisor  
**Location:** Detroit Property

**Core Duties:**

- Performs skilled electrical work in the installation, maintenance and repair of all electrical wiring, apparatus, systems, fixtures, motors, and other equipment in accordance with specifications and codes, to ensure life safety systems at DWT are operating optimally

**Duties:**

1. Plans details of working procedure by determining replacement needs or new material required and develops a logical approach to correct the problem
2. Analyzes, corrects, repairs electrical problems, and over-hauls electrical equipment/controls
3. Analyzes circuits, wiring diagrams and drawings to install, repair, calibrate, service or replace electronic devices and systems
4. Receives wiring diagrams, specifications and instructions from supervision covering emergency and scheduled repairs, installation and electrical inspection work needed
5. Performs work requiring a thorough knowledge of electrical theory and principles, statutory codes, properties of materials and principles of operating electrical equipment
6. Starts up and shuts down equipment in accordance with company safety procedures for machine activation and shutdown and in line with MI/OSHA requirements
7. Services electronic equipment by checking, testing, and replacing faulty components, circuits, printed circuit boards, and similar electronic devices
8. Installs, repairs, and maintains communication cables and power distribution cables
9. Fabricates parts if not commercially available, using machines and hand tools common to the trade, and splices cable pieces as necessary
10. Determines need for, analyzes and makes running adjustments, repairs, and overhauls
11. Advises and cautions operators and mechanics about potential electrical problems and inherent dangers involved
12. Notifies supervision of potentially dangerous electrical equipment noted and corrective action taken
13. Performs minor maintenance of heating and refrigeration systems, boiler systems, and furnaces
14. All other duties as assigned

**Qualifications:**

- Michigan Electrical Journeyman's License
- Satisfactory completion of formal apprenticeship training period
- Ability to climb overhead structures, to work beneath machines and in close quarters performing analysis and repair work
- High degree of precision working with minimum tolerances required
- High degree of attention and care required to prevent injury to others when responsible for the flow of electrical power
- Exposed to high voltage of electricity
- Experience with electronic and computer controlled equipment
- Valid driver's license