

Overview A highly skilled Industrial Electrician experienced in installing, repairing, and maintaining electrical, electronic, and mechanical systems across heavy manufacturing environments. Strong background in troubleshooting complex circuits, maintaining production equipment, supporting automation systems, and ensuring safe, reliable plant operations.

Core Responsibilities & Experience

- **Advanced Electrical Troubleshooting:** Analyzes circuits, wiring diagrams, and electrical drawings to install, repair, calibrate, modify, and service a wide range of electrical and electronic devices, including communication systems, production machinery, control systems, instrumentation, and power distribution equipment.
- **Repair & Maintenance:** Assembles, inspects, adjusts, repairs, and replaces faulty electrical and electronic components. Performs both electrical and mechanical repairs as needed to support equipment reliability.
- **Equipment Overhaul & Testing:** Inspects, dismantles, services, reassembles, tests, and adjusts equipment to ensure safe and proper operation. Supports start-up and shutdown of plant equipment.
- **Motor Controls & Drives:** Experienced with motor starters, VFDs, DC drives, and electric brake systems (including crane brakes). Skilled in troubleshooting and replacing control components.
- **PLC & Automation Support:** Reads schematics, interprets PLC indication lights, and verifies I/O status. Measures 4–20mA and $\pm 10V$ transmitter loops to diagnose automation issues.
- **Communication Systems:** Installs and repairs communication networks and cabling, including Profibus, ControlNet, RS232, R-Net, Dec-Net, Ethernet, and PLC remote drops.
- **Scale Systems:** Installs, maintains, and troubleshoots plant weigh scale systems.
- **Preventive Maintenance:** Performs PMs on electrical, instrumentation, and control devices to minimize downtime and extend equipment life.
- **Documentation:** Records all work performed in a Computerized Maintenance Management System (CMMS) to maintain accurate maintenance history.
- **Additional Skills:** Performs soldering tasks, maintains clean and safe electrical rooms and work areas, and supports continuous improvement initiatives.

Training & Background

- Electrical Journeyman's Card with at least 1 year of experience **or**
- 4+ years electrical experience without a Journeyman's Card **or**
- Completion of a formal electrical apprenticeship program
- High school diploma or GED

- Ability to pass all required testing and complete role-specific training
- Master Electrician card (if applicable) qualifies for advanced responsibilities and compensation

Quality Responsibilities

- Maintains machinery to achieve the highest possible product quality
- Follows all quality system policies and procedures
- Supports continuous improvement and zero-defect goals

Safety Responsibilities

- Locks out all equipment prior to repair
- Performs all work in accordance with established electrical and plant safety policies
- Follows departmental safety rules, including cardinal safety requirements
- Maintains safe work habits in electrical rooms, shops, and job sites

Production & Cost Responsibilities

- Maintains equipment to minimize downtime and support consistent production
- Troubleshoots issues quickly to reduce operational interruptions

Environmental Responsibilities

- Understands and follows all applicable federal, state, and local environmental regulations
- Completes required annual safety and environmental training
- Supports spill prevention, containment, response, and cleanup
- Performs tasks with environmental impact awareness (e.g., dust collection systems, water systems, calibration of environmental equipment)

Professional Strengths

- Strong troubleshooting ability across electrical, electronic, and mechanical systems
- Skilled in automation, instrumentation, and industrial communication networks
- Detail-oriented, safety-focused, and committed to preventive maintenance
- Reliable documentation habits and strong communication skills
- Dedicated to continuous improvement and equipment reliability