



Instrumentation Electrician

The Instrumentation Electrician (IE Tech) supports the reliability, maintenance, and performance of the ethanol processing facility. This position is responsible for installing, maintaining, troubleshooting, and improving plant electrical, instrumentation, automation, and mechanical systems critical to daily operations. This position will also support the maintenance team in repair, maintenance, and other duties as needed.

The following duties are not intended to be all-inclusive. Employees may be required to perform other duties as assigned by management.

Typical Responsibilities

- Install, troubleshoot, repair, calibrate, and maintain plant electrical and instrumentation systems
- Troubleshoot PLCs, DCS systems, motor controls, MCCs, VFDs, and automated process equipment
- Maintain and calibrate instrumentation, including flow, pressure, level, and temperature devices, analyzers, gauges, and control valves
- Perform preventive and predictive maintenance on electrical instrumentation and mechanical equipment
- Read and interpret schematics, P&IDs, loop drawings, and technical manuals
- Support plant repairs, troubleshooting equipment, and reliability improvement projects
- Assist with PLC programming, fault analysis, and control system upgrades
- Maintain maintenance records, calibration documentation, and spare parts inventory
- Work closely with operations and maintenance teams to minimize downtime and support safe plant operations
- Provide input into the electrical and electronic design of equipment

Other Maintenance Duties

- Perform preventive maintenance on all equipment, conduct inspections, replace components, and schedule future maintenance as required
- Troubleshoot and repair electrical problems on plant and processing equipment, including wiring, circuits, fuses, switches, transformers, motors, and drives using diagnostic equipment
- Effectively interact with team members and management to achieve work goals
- Support continuous improvement initiatives and adapt to operational changes
- Maintain clean and organized work and shop areas to avoid injury and sanitation issues
- Participate in the on-call rotation to support plant operations

Qualifications

- High school diploma or equivalent required

Your employment with Cardinal will be on an at-will basis, which means you and the company are free to terminate the employment relationship at any time for any reason with or without cause. This letter is not a contract or guarantee of employment for a definite amount of time.



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- Journeyman electrician license or equivalent industrial electrical/instrumentation experience preferred
- Experience in industrial manufacturing, ethanol production, grain processing, chemical processing, power generation, or similar industrial environments preferred
- Knowledge of industrial instrumentation, PLCs, DCS systems, automation controls, and industrial electrical systems
- Ability to troubleshoot 480V systems, motors, control circuits, instrumentation, and plant equipment
- Ability to read blueprints, electrical prints, and schematics
- Ability to troubleshoot plant and production equipment issues
- Ability to work collaboratively with team members and other departments to resolve issues
- Ability to read, write, and communicate effectively in English
- Demonstrated commitment to safe work practices
- Strong problem-solving, communication, and teamwork skills
- Ability to work independently and in a team environment
- Willingness to work overtime, rotating schedules, call-ins, and on-call assignments
- Regular and consistent attendance is an essential function of the position

Preferred Skills & Experience

- One (1) to two (2) years of vocational training or equivalent experience in electricity, electronics, programmable controls, or related industrial maintenance experience
- Experience with Allen-Bradley PLCs and HMIs
- Experience with DeltaV or other DCS platforms
- Experience with instrument calibration and analytical equipment
- Experience using CMMS maintenance systems
- Knowledge of conduit bending, wire pulling, welding, fabrication, and industrial installation practices

Tools & Equipment Experience

Experience using:

- Multimeters
- Megohmmeters
- Amp probes
- Calibration equipment
- Hand and power tools
- PLC programming software and diagnostic tools

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Physical Requirements

- Ability to wear required Personal Protective Equipment (PPE), including hard hat, safety glasses, gloves, heeled boots, and hearing protection
- Ability to safely work around and on industrial equipment, including frequent climbing, stooping, reaching, pulling, pushing, twisting, bending, kneeling, crawling, and grasping
- Ability to stand for extended periods, walk up to one (1) mile per day, and perform computer and data entry tasks while seated
- Ability to frequently lift, carry, push, and pull up to 70 pounds, including repetitive lifting and carrying of materials weighing 20–50 pounds
- Ability to safely operate hand tools, power tools, and precision measuring and testing instruments
- Ability to work in confined spaces and climb stairs and ladders up to 200 feet in height
- Sufficient visual and hearing acuity, including near vision, distance vision, and depth perception
- Ability to work indoors and outdoors in varying environmental conditions and temperatures ranging from -20°F to 100°F
- Willingness and ability to work around dust, oil, grease, chemicals, and other industrial substances
- Ability to crouch, crawl, sit, climb, and maintain balance as needed to perform job duties safely

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