



Position Description

DESIGNATION: Instrumentation/ Electrical Technician

SUMMARY OF POSITION: The Instrumentation/Electrical Technician is responsible for performing corrective and preventative maintenance on instrumentation and electrical systems at Arrow facilities. Key duties include troubleshooting PLCs and control systems, calibrating analyzers and transmitters, maintaining electrical components, and supporting the installation and modification of equipment. The role requires strong technical knowledge, attention to detail, and a commitment to safety and maintenance best practices.

REPORTS TO: I&E Supervisor

SUPERVISES: This position does not include direct supervisory responsibilities but may occasionally provide directions to contractors as operational needs require.

Key Responsibilities:

Instrumentation & Electrical Maintenance

- Perform maintenance, calibration, and troubleshooting of instrumentation and electrical systems, including DCS, PLCs, motors, analyzers, transmitters, and lighting systems
- Interpret technical drawings, wiring diagrams, and specifications to support installation, modifications, and repairs of control and electrical systems
- Conduct preventive and corrective maintenance (PM/CM) to ensure reliability and compliance with operational standards
- Assist in project execution, including commissioning and upgrades of control systems and instrumentation
- Contribute to the development of maintenance procedures, work standards, and job plans

Technical Interpretation & Documentation

- Diagnose and maintain PLC systems, DeltaV DCS, and networked control devices across plant operations
- Read and interpret electrical and instrumentation schematics, P&IDs, and equipment documentation
- Use CMMS (Computerized Maintenance Management Systems) to track equipment condition, work orders, and maintenance history
- Analyze data from process instruments and control systems to support reliability and performance improvements

Safety & Compliance

- Follow all safety protocols including electrical isolation, lockout/tagout (LOTO), confined space entry, and arc flash protection



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- Ensure work complies with electrical and instrumentation codes, corporate policies, and regulatory requirements
- Participate in safety meetings, toolbox talks, and hazard assessments
- Maintain compliance with PPE requirements, including the ability to wear a full-face air purifying respirator
- Support plant-wide environmental, health, and safety (EHS) initiatives and best practices

Teamwork & Project Support

- Work collaboratively with engineers, operators, and maintenance personnel to resolve technical issues and improve system reliability
- Serve as a technical resource on operations and maintenance (O&M) project teams
- Provide field support for electrical and instrumentation components during start-up, shutdown, and emergency situations

Qualifications & Experience

- Valid Class 5 driver's license and Journeyperson certification in both Instrumentation and Electrical trades (or in one with a willingness to obtain dual certification)
- Proficient in using electronic diagnostic tools, laptops, and software applications related to control and instrumentation systems
- Strong planning, troubleshooting, and communication skills; self-motivated and safety-focused
- Prior experience in industrial or wastewater treatment environments is considered an asset
- Medically and physically fit for field work and able to meet requirements to wear a full-face air purifying respirator