

Position: Instrumentation & Automation Field Technician  
Location: Liberty Lake, WA  
Type: Full time

## **Instrumentation & Automation Field Technician**

QualiTEQ is a full-service Underwriters Laboratory (UL508A and UL698A) listed fabrication shop capable of delivering electrical control panels of all types and sizes. Our team of experienced fabricators skillfully integrate state-of-the-art components with leading technologies to meet your automation and control needs. We maintain relationships with industry's leading equipment providers to provide our clients cutting edge technology and premier value.

### **Position Summary**

The Instrumentation & Automation Field Technician is responsible for building control panels, configuring, commissioning, and troubleshooting industrial control devices such as VFD's, PLC's, and HMI software. The Instrumentation & Automation Field Technician reports to the General Manager.

### **Key Responsibilities**

- Build electrical power and control panels from schematics, diagrams, and drawings.
- Install control and distribution apparatus such as switches, relays, and circuit-breaker panels.
- Perform analysis to ensure that electrical equipment is in excellent condition prior to operation.
- Configure, calibrate, and commission instrumentation and analytical equipment.
- Install, monitor, troubleshoot, repair, and calibrate process controls for temperature, level, flow, and pressure.
- Configure, commission, and troubleshoot Variable Frequency Drives and other motor control circuits.
- Commission, troubleshoot, and modify PLC based control systems.
- Perform modifications to existing control systems.
- Configure, modify, and troubleshoot Operator Interface Terminals (OITs).
- Troubleshoot and modify SCADA software with remote assistance from controls engineers.
- Troubleshoot analog and digital circuits with the ability to troubleshoot to a device level with or without drawings and documentation.
- Read and modify or update control, electrical, and P&ID drawings.
- Interpret Operations manuals, field procedures, line-ups, drawings and specifications, and other technical work instructions relative to electrical equipment.
- Complete all documentation associated with service and commissioning in a timely manner.
- Professionally represent QualiTEQ on every client contact and site visit.
- Meet schedule and budget as provided by management.
- Ensure the proper and safe use of equipment, procedures, and field processes.
- Assume responsibility and accountability for tool inventory.
- Communicate daily activities and site status updates to management.

### **Qualifications**

- Associates degree in electrical engineering, instrumentation technology, or related field. (Equivalent years of experience will be considered in lieu of degree.)
- Minimum of 3 years of experience in the electrical industry.
- Instrumentation, controls, and automation experience preferred.

## **Skills**

- Read, interpret, and follow the specifications of complex electrical schematics, mechanical drawings, Quality Control Manuals, Process Control Procedures, and other technical manuals and specifications.
- Have a working knowledge of Programmable Logic Controllers (PLC's), computers, industrial control programs and interfaces between controllers and programming systems.
- Properly use basic hand and power tools, especially wrenches, screwdrivers, pliers, cutting tools, hole tap and punch, measuring tools, drills, wire strippers, crimpers, and T-square.
- Troubleshoot basic electrical problems using digital multimeter and other standard electrical tools.
- Knowledge of electrical standards and codes such as NFPA 79, NEC, UL508, IPC 610, IPC 620, CE L508, IPC 610, and IPC 620.
- Knowledge and experience with Variable Frequency Drives and other motor control circuits.
- Knowledge and experience with instrumentation commonly used in industry.
- Knowledge and experience with PLC programming software such as Rockwell (AB), Modicon, Emerson/GE, Siemens, and others.
- SCADA systems experience is a plus.