



### POSITION SUMMARY

Under direction, assists IE Technician Class A in troubleshooting, repair, and maintain electrical/instrumentation systems in power centers, motor control centers, 7200V switch gears, 138KV and 345KV transmission switchyard using schematics, interconnects and test equipment. Performs repairs on high voltage equipment, repairs meters, observes ammeters, voltmeters and related test equipment. Uses recording and indicating instruments to assess possible equipment downtime that may affect normal generating and transmission equipment operation. Troubleshoots and maintains Allen Bradley PLC hardware, software systems, Data Acquisition System (DAS), Digital Electro-Hydraulic (DEH), Digital Control System (DCS), environmental analyzers and equipment, transmitters, electronic equipment, lab analyzers, sensor loops, solenoids, transducers and controllers. Maintains electromechanical and digital/microprocessor protective relays. Examples of systems and equipment includes Emerson Ovation, Foxboro, DCS, GE, Westinghouse, and SEL.

### WORKING CONDITIONS

Industrial environment with ability to exert a moderate degree of physical effort including climbing, balancing, standing, stooping, kneeling, crouching, crawling, walking and the assisted lifting of objects and materials up to 50 pounds. Ability to work in confined spaces and high areas with electrical hazards. Ability to work in confined spaces including, but not limited to: generators, transformers, breakers, tanks, wire vaults, scrubber modules, boiler, precipitator, vessels, etc. Ability to work in areas of excessive height including, but not limited to 400-foot stack, 100-foot coal pile lights, support structure beams, switchyard structures, manlifts, scrubber module structures, boiler structures, precipitator structures, vessel structures, etc. and to climb into those locations with the necessary tools and safety equipment. Ability to perceive and discriminate sounds and depths. Exposure to adverse environmental conditions, such as dirt, dust, odors, humidity, temperature and noise extremes, wetness, strong or toxic agents or chemical, machinery and vibrations. Specific vision abilities include close vision and distance vision with varied lighting. Use of personal computing equipment, telephone, multi-functioning printer and calculator. Ability to travel to and from meetings, training sessions or other business-related events. May be required to work after hours to include weekends and holidays.

### ESSENTIAL FUNCTIONS

Maintains, calibrates, programs, and monitors Data Acquisition System (DAS), Digital Electro-Hydraulic (DEH), Digital Control System (DCS), computers, environmental analyzers and equipment, transmitters, electronic equipment, lab analyzers, sensor loops, solenoids, transducers and controllers. Develops programs for Allen Bradley Process Logic Controller (PLC) operations, as required

Performs inspections, tests, adjusts, and repairs electronic, mechanical and pneumatic instruments.

Inspects, tests, calibrates, repairs and maintains electrical systems, valves, solenoids, indicators, gauges, meters, relays; both analog and digital

Helps with Class A IE Technicians, IE Helpers and temporary employees.

Tests accuracy of flowmeters, pressure gauges, temperature indicators, controllers, radiation counters or detectors and other recordings indicating or controlling instruments to locate defective components in system.

Utilizes test equipment to include, but not limited to: pressure gauges, mercury manometers, potentiometers, pulse and signal generators, oscilloscopes, transistor curve tracers, ammeters, voltmeters and watt meters.

Lubricates instruments and replaces defective wiring, tubing, conduits and associated equipment.

Maintains lubrication and filter systems on electrical/instrumentation systems including, but not limited to; motors, fans,

Maintains a safe and clean work area.

May be required to work on call, after hours, weekends and holidays.

Performs other duties, tasks and special projects as assigned.

### KNOWLEDGE, SKILLS & ABILITIES

Education	Experience	License & Certification	Testing	Other
<ul style="list-style-type: none"><li>• High school diploma or equivalent</li><li>• Journeyman, state certification, or 5 years industrial electrical work experience</li></ul> And/or Associate's Degree in Instrumentation Technology or related field preferred	<ul style="list-style-type: none"><li>• At least 4 years' experience in industrial electrician preferred</li><li>• On the job training</li></ul>	<ul style="list-style-type: none"><li>• Valid Driver License</li></ul>	<ul style="list-style-type: none"><li>• Criminal background check</li><li>• Non DOT drug test</li><li>• Acceptable MVR</li></ul>	<ul style="list-style-type: none"><li>• Personal Computing</li><li>• Lockout/Tagout</li></ul>