 **Electrician**

**Reports to: Shift Maintenance Supervisor**

**Department: Maintenance**

**FLSA Status: Non-Exempt**

**Job Summary:** This position will work independently to perform maintenance, repair, or modification of plants computer driven controls systems and plants mechanical and electrical systems. Is involved in fabrication, application, installation and repair of mechanical equipment, installation of electrical conduit and machine/building wiring.

**ESSENTIAL DUTIES AND RESPONSIBILITIES:**

* Day to day troubleshooting, repair and installation of low & high voltage industrial systems for utility and production
* Support plant installation to size conductors and conduit for load, form all sizes/types of conduit and thread ends of field cut conduit and pull field wires in accordance with NEC code
* Assist in maintaining documentation for existing and new equipment, control and building power system installations
* Work independently in troubleshooting and repair problems with Programmable Logic Controllers and related components when required
* Diagnoses and troubleshoots cause of electrical or mechanical malfunctions or failure of equipment or systems repairs or replaces defective components
* Experienced in the use of electrical diagnostic equipment such as multimeters, amp clamps and meggers to test electrical circuits and components to locate shorts, faulty connections, defective parts and replaces or repairs to suite
* Disassembles, replaces, or repairs mechanical and electrical components
* Must read and interpret electrical and electronic drawings, schematics, blueprints, engineering drawings and sketches to determine problem and make appropriate repairs
* Examine and test components and support systems to ensure that they are in compliance with all standards and regulations
* Be able to obtain backup PLC programs from a server to reload and reboot PLC programs to restore faulted equipment
* Assist with system startups and operational checkouts on systems including configuration, wiring, calibration, grounding and power testing
* Utilize technical materials such as equipment manuals, MSDS, safety materials, system drawings, schematics and blueprints to troubleshoot and maintain systems

**SPECIFIC KNOWLEDGE, SKILLS AND EXPERIENCE REQUIRED:**

* Must be able to read and write in English
* Demonstrated ability to work independently of supervision
* Strong organizational, analytical, and critical thinking skills
* Balance workday between multiple projects
* Be able to read, interpret, and modify electrical prints and schematics
* Complete understanding of plant electrical systems, including DC voltage and AC voltage
* Complete understanding of relay and discrete device control systems
* Experience using sensing and control devices

**Education:**

South Dakota Journeyman Electrician Certification or an Associate’s degree or equivalent in Programmable Logic Controllers, SCADA, computer systems, or electronics or an South Dakota Apprentice Electrician Certification.

**Work Environment:**

* Obey safety rules and exercise caution in all work activities

**Physical Demands:**

* Ability to lift 50 pounds, Sit, Stand, Walk, Bend, Twist, Reach, Lift and Grasp
* May be sitting, standing, or walking for prolonged periods of time

This job description is not intended to be all-inclusive.  Employee may perform other related duties as needed to meet the ongoing needs of the organization.