



Job Description

Title: Electrical & Instrumentation Technician	Reports to: Electrical & Instrumentation Maintenance Supervisor
Status: Full Time	Location: Kellogg, ID
FLSA: Non-Exempt	Updated: 8/9/2024

Position Summary:

The Electrical and Instrumentation Technician is responsible for modifying, rebuilding, and/or overhauling electronic and electrical equipment and controls. Applies knowledge of electric theory and electronic principles in determining equipment malfunctions and applies skills in restoring equipment to operation.

Bunker Hill Core Values

- Behave like an owner
- Act with a sense of urgency
- Be a team player
- Continually Improve
- Deliver Results

Essential Functions:

- Perform site-wide electronic and electronic maintenance for:
 - Process Infrastructure
 - Surface Support Facilities
 - Site Utilities
 - All Process Equipment, Unit Processes, and Facilities
- Execute assigned maintenance tasks and electrical projects efficiently and effectively.
- Plan and perform work requiring a thorough knowledge of electrical and electronic theory and principles of operation and application of electronic equipment and process instrumentation.
- Responsible for identifying needed replacement parts and to prepare requisitions for purchase or warehouse issue requests.
- Plan details of working procedures to determine material or replacement needs and determine a logical approach to repair problems.
- Troubleshoot and rectify electrical and instrumentation issues to minimize equipment downtime.
- Service electronic equipment and process instrumentation by checking, testing, and replacing faulty components, circuit modules, printed circuit boards, vacuum tubes, and similar electronic devices.
- Perform site-wide electronic and electrical/instrumentation maintenance, making operating adjustments as required.
- Perform equipment electrical analysis and diagnosis, advanced troubleshooting and systems/process optimization.
- Work on switch gear and distribution including grounding with proper LOTOTO procedures.
- Perform preventative maintenance including motor checks, ground loop checks, metering electrical circuits, calibrating equipment, breakers, starters, instruments of all types, and completing additional checks and inspections as required.
- Review, revise and create SOP's as requested.

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- Perform NRC conduit bending and fastening: conduit, cable tray, grounds, boxes, and calculating loads and feeder sizes.
- May be required to use the following mobile equipment: forklifts, light duty vehicles, bucket trucks, high-lift trucks.
- Accountable participation in developing and updating all electrical maintenance strategies for Process assets and facilities and emphasize the principles of Reliability Centered Maintenance and maintenance best practices.
- Active participant in personal development and stay current on training and new technology.
- Troubleshoot and maintain PLC and SCADA control system as necessary. This could include minor program modifications and/or corrections.
- Maintain and install communication cables, power distribution cables and wiring; perform splicing as required.
- Fabricate parts as required using machine and hand tools common to the trade.
- Inform Supervisor immediately of potentially dangerous electrical equipment or hazards to ensure a safe working environment.
- Advise operators and mechanics of standard operating procedures and requirements for working safely with electronic equipment and components.
- Maintain performance and maintenance records for electronic and electrical equipment.
- Maintain cleanliness and safety standards in the work area.
- Focus on continuous personal development and technical improvement.
- Perform other duties as assigned to support successful site operations.

Key Result Areas & Measures

- Ensure a safe and healthy working environment with a high standard of housekeeping.
- Excellent and demonstrated personal commitment to safety & health; work safely in all areas, identify potential safety hazards, and work with management to correct safety hazards.
- Work without significant risk of harm to self and others.
- Positive and effective working relationship with Production, Maintenance, and Supply Chain teams. Ensure that Production has equipment available to meet the production plan. Strive to meet site and departmental KPIs as well as critical maintenance KPIs.
- Maintain excellent working relationships with BH personnel as well as external suppliers and contractors.
- Focus on quality input of maintenance data so that it can be used to drive continuous improvement.

Key Competencies

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- **Quality Communication:** Interacts with a wide variety of departments / roles. Communicates in a clear and concise manner with maintenance team.
- **Project Management:** Completes rebuilds, campaigns, shutdowns with emphasis on identifying resources, materials, and managing costs.
- **Time Management:** Able to pace own work with minimal supervision. Capable of readjusting priorities when necessary.
- **Team Member / Contributing to Team Success:** Role is part of a larger organization – operations, safety, HR, supply, etc. – each person has a part to play to deliver the overall business objectives.
- **Drive / Facilitate Change:** As a maintenance team member, it is important to be able to adopt new ideas, improvements, and good practices. Then implement that change in the workplace – safety, health, production, and cost reduction.
- **Planning and Organization:** Apply structure to the tracking of components, making use of the information to refine maintenance strategies.
- **Maintain Work Standards:** Ensure consistency across mechanical maintenance disciplines by following standards.
- **Focus on Quality:** Quality of maintenance execution, not just the time to repair. Minimize rework. Deliver safe and reliable equipment performance.

Training and Experience Required:

- High school diploma or vocational certificate in electrical trades; must have sufficient education to read and write instructions, perform simple mathematical calculations, and maintain accurate records.
- 2+ years as a journeyman electrician and maintenance related experience in an industrial environment **required**; preferably in a mining environment or similar heavy industry.
- Demonstrated technical knowledge of electronics, electrical systems, and process instrumentation required.
- Specialized mechanical/electrical trades experience, particularly with fixed processing plant equipment *preferred*.
- Ability to perform the essential functions of the position is required.

Skills and Abilities Preferred:

- Demonstrated safety leadership is **required**.
- Demonstrated commitment to self-education.
- Experience in Control Systems, Instrumentation, Hydraulic and Pneumatic systems, and High Voltage Switching Operation and Isolation preferred.
- Familiarity with maintenance systems such as SAP, Oracle, JDE, Pronto, Discovery, Limble, etc.

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- Condition monitoring practices such as oil analysis, vibration analysis, ultrasonic testing, thermography, etc.
- Low, medium, high voltage system management and maintenance.
- Advanced experience in process plant instrumentation types/applications.
 - Proficiency in conducting failure analysis and in the use of root cause investigation techniques.
 - Experience with VFDs, PLC, HMI, and/or SCADA Control Systems maintenance and programming.
 - Experience with AC and/or DC controls, diagnostic electrical test equipment, and HVAC equipment.
 - Excellent written and verbal communication skills.
 - Basic computer operation knowledge.
 - Drive for continuous improvement and innovation.

Physical Demands/Work Environment

- Move head and neck repeatedly in up and down, side to side motion at various times throughout shift. Sit and turn head approximately 90 degrees to view driving direction while operating pedals with feet and steering with hands (if applicable).
- Stand, walk, kneel, reach, and/or sit for extended periods of time (up to an entire shift) on concrete, uneven, rock-strewn, wet, snowy, icy, muddy, slick ground or in various lighting while performing duties.
- Use depth perception and peripheral vision continuously during shift.
- Hear, see and smell various kinds of warnings such as audible alarms, voices, hand and light signals, and stench gas (if applicable).
- Wear required protective equipment including; steel toe shoes or boots, safety glasses, hard hat, welding leathers, welding goggles or shield, arc flash protection, fall protection, hearing protection and/or dual hearing protection and if applicable cap lamp, respirator and self-rescuer.
- Perform duties under conditions that may be hazardous including, extreme temperature, high humidity, moving equipment, moving mechanical parts, hot mechanical parts, and equipment traffic; and exposure to fumes, odors, dusts, gases, liquids, greases, and mists.
- Ability to read and write instructions and communicate information in one-on-one and group situations.
- This position requires the ability to regularly walk over uneven, sloped, rocky, wet or icy ground and the ability to lift 25 or more pounds consistently and safely.
- Shift work and irregular hours may be required.

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Candidates from recruiting/staffing firms will not be accepted at this time.

Bunker Hill promotes a drug/alcohol-free work environment through mandatory pre-employment drug testing. To be considered for this position, please forward your resume to: hr@bunkerhillmining.com.