

	JOB PROFILE Automation and Commissioning Specialist	DOCUMENT: HUMAN RESOURCES DATA: 09/12/2024 VERSION: 01
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JOB DESCRIPTION:

- **Professional Area:** Site Management;
- **Position:** Automation and Commissioning Specialist;
- **Hierarchical relationships:** reports to the Head of Site Management
- **Functional relationships:** the role involves coordinating with Project Manager, Site manager, subcontractors, Buyers and Expeditors.

POSITION OBJECTIVES:

The role involves overseeing the installation, configuration, and support of PLC systems, inverters, and complex industrial equipment.

MAIN ACTIVITIES AND RESPONSABILITIES:

- Provide technical support for various PLC software platforms (e.g., Siemens, Allen-Bradley, Schneider).
- Configure, calibrate, and maintain inverters for motor control.
- Manage all commissioning activities, including acceptance testing, functional checks, and on-site field trials.
- Supervise the installation and commissioning of industrial equipment, including:
 - Conveyor systems and related components:
 - Metal detectors
 - Belt scales
 - Magnetic separators
 - Crushers
 - Roller screens/vibrating screens
 - Sampling stations
 - Diverters
 - Maintenance hoists
 - Material handling machinery for stockyard operations.
 - Ship loading/unloading equipment.
 - Stacker/reclaimer machines.
- Reading and interpreting design schematics to check the proper installation of electrical systems
- Inspect electrical systems, equipment, and components to identify hazards, defects, and the need for adjustment or repair;
- Troubleshoot and resolve electrical issues promptly;

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- Prepare and submit reports on project progress and performance. Maintain accurate records of work performed and materials used;
- Ensure compliance with all relevant regulations and standards;
- Handle emergency situations and provide solutions promptly;

PROFESSIONAL EXPERIENCE AND SKILLS

- **Technical Competence:**
 - Hands-on experience with PLCs and inverters, including troubleshooting and programming.
 - Proficiency in reading and interpreting electrical schematics and control logic.
 - previous experience in software development and commissioning of mechanical and mobile equipment, proven experience (at least 5 years) in electrical systems.
 - Ability to read and understand datasheets of the electrical components,
 - Technical capability to access electrical panels with live circuits safely, proficiency in using electrical testing and diagnostic tools.
- **Technical Skills:**
 - Knowledge of industrial communication protocols (Profinet, Modbus, Ethernet/IP).
 - Experience with complex machinery for the mining, port, or similar industries.
 - Excellent communication and interpersonal skills for interacting with clients and suppliers.
 - Advanced expertise in industrial automation and commissioning.
- **Language Skills:** English fluent, French is a plus;
- **Education and Training:** Diploma or Degree in Electrical Engineering, Automation, Mechatronics, or a related field.

PERSONAL SKILLS AND APTITUDES.

- Willingness to travel for on-site support and commissioning, including international assignments.
- Result orientation;
- Organisational skills;
- Problem solving skills and the ability to work independently and collaboratively in multidisciplinary teams;
- Ability to work as a team;
- Relationship management skills;
- Accuracy and attention to detail;
- Ability to check and control activities;
- Negotiation skills;

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- Customer orientation;
- Leadership.