

JOB DESCRIPTION

AUTOMATION TECHNICIAN

Rev 0, 18-May-2015

The Automation Technician performs duties under the general direction of the Electrical / Controls Engineer and the Director of Assets and Certification. Works independently to perform maintenance, repair, and/or modification of the assets computer driven controls systems and the assets mechanical and electrical systems. The Automation Technician is involved in fabrication, application, installation and repair of mechanical and electromechanical equipment, the installation of electrical systems and vessel/rig wiring.

Relationships

Line Managers: Electrical Engineer and Director of Assets and Certification
Direct Reports: None
Key Relationships: Internal:
Engineering & Maintenance Teams

Role

- Exhibit professionalism and respect toward clients, vendors, guests, and all Atlantica Team Members
- Maintain high level of integrity and confidentiality with regard to Company information
- To demonstrate and promote safety leadership and adhere to and support safety programs and policies
- To support, plan, and conduct multiple installation as required by management so as to meet the highest applicable standard of international offshore drilling practices
- To provide assistance to fleet wide installations as directed, and be willing to travel internationally

Safety

- Participates in Atlantica's behavior based safety program; ABLE (Atlantica Behavioral Learning Event)
- Ensures adherence to all Atlantica's safety policies and procedures
- Participates in weekly and pre-tour safety meetings on designated rig
- Personally responsible for own safety and conducting one's self in alignment with Atlantica's IMS standards
- Promote and promulgate Atlantica safety program
- Apply Atlantica safety policies and practices in rig operations and act as a role model to other crew members in all safety matters
- Ensure that all activities, including those of third party contractors, are conducted using safe working practices and using the designated Personal Protection Equipment (PPE)
- Support follow and support the Lock Out/ Tag Out program and all Atlantica SWIM (Safe Work Integrity Management) procedures and policies
- Overall responsible for ensuring safety of the work place, by seeing that appropriate practices are established, in place and enforced

Responsibilities

Operations

- Day to day trouble shooting, repair and installation of low voltage (single/three phase) industrial electromechanical & control systems for vessel & drilling equipment
- Create parts list and determine spare parts inventory onboard the assets for proper maintenance and repair of operational critical equipment to minimize downtime. This includes both drilling and marine electrical systems
- Support multiple installations as required and directed by management
- Assist in maintaining documentation for existing and new equipment, control and power system installations, which includes: submitting changes for review by engineering and regulatory governing bodies
- Work independently in troubleshooting and repair problems with Programmable Logic Controllers and related components when required

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- Be able to obtain back-up PLC programs 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. Diagnoses cause of electrical or mechanical malfunction or failure of equipment or systems repairs or replaces defective components
- Interface with equipment operators and maintenance staff to ascertain problems with equipment
- Disassembles replaces or repairs mechanical and electrical components
- Examine and test components and support systems to ensure that they are in compliance with all standards and regulations
- Test and calibrate electrical/electronic systems and components to ensure that they are operating properly or locate defects
- Dismantles devices to gain access and remove / replace defective parts
- Uses computerized equipment and software to perform testing functions and produce detailed reports for records and tracking
- Troubleshoots and repairs electrical problems in the drilling related systems
- Assembles and installs electrical and electro-mechanical components and systems
- Devises, sets up and operates electronic instrumentation and related electro mechanical or electro pneumatic/hydraulic apparatus used for operation of mechanical or electrical equipment or drives
- Utilize technical materials such as equipment manuals, MSDS, safety materials, system drawings, Process and Instrument Diagrams (P&ID's), schematics and blueprints to troubleshoot and maintain systems
- Writes procedures, work instructions, work orders and maintains records of repairs, calibrations and tests in the CMMS system
- Directs and coordinates fabrication and installation to ensure equipment and systems conform to engineering design, and applicable class and flag codes and regulations
- Responsible for ensuring that equipment specific energy control procedures are developed for all equipment that present the potential for the release of hazardous materials

Qualifications Required

Education:

- Minimum 2 years' industry experience in writing, programming, and trouble-shooting Programmable Logic Controllers (Siemens preferred).

Professional Experience:

- Must read and interpret electrical and electronic drawings, schematics, blueprints, engineering drawings and sketches to determine problem and make appropriate repairs
- General understanding and hands on experience with explosion proof and intrinsically safe work environments. Knowledge of all applicable codes
- Must be competent to make electrical/mechanical diagnostic evaluation and prescribe corrective action
- Complete understanding of drilling and marine electrical systems, including DC voltage and AC voltage from 24V to 690V
- Complete understanding of relay and discrete device control systems
- Proficiency in electrical installations with hazardous area wiring practices
- 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 suites
- Experience using sensing and control devices

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- Experience using both DC and AC motors, VFD and Servo Controlled Systems (Siemens preferred).
- Experience with drill floor automation and office Ethernet, DeviceNet, ControlNet network wiring and Fiber optic Networks

Licenses, Certifications, Credentials, Training and other Requirements:

- Offshore survival and medical certificates as mandated by government/client regulations are required
- Current first aid and CPR certifications are required
- Must pass pre-employment screening as well as random drug tests, as applicable per local laws

Minimum Competencies Required for Hiring

- Proficiency in written and spoken English
- Ability to work 12 hour shifts, or perhaps longer, as circumstances dictate
- Must be a self-starter and well organized
- Must be a team player and interact well with other cultures
- Assesses own strengths and weaknesses; Pursues training and development opportunities; Strives to continuously build knowledge and skills; Shares expertise with others
- Computer savvy in the full Office Suite of products including Word, Excel, and Outlook, Adobe Acrobat and Electronic Document Management systems