Job Description

9th Floor Tanzanite Park, Victoria, Dar es Salaam, Tanzania | +255 758 778 886 | info@empower.co.tz

Job Title
Instrument Engineer

Job Location
Tanga

Category
-

Job Type
Full Time

Job level
Intermediate

Industry
Oil & Gas

Open to Expatriates
Open to Expatriates & Local Nationals

Minimum Requirements

Min Budget
-

Max Budget
-

Primary Industry
Oil & Gas: 4 Years

Secondary Industry
-

Primary Category
-

Secondary Category
-

Certificate
-

Qualification
-

Summary

The Field Instrument Engineer is responsible for installing, maintaining, troubleshooting, calibrating, and repairing instrumentation and control systems used in oil and gas production, processing, transportation, and storage facilities. The role ensures the safe, reliable, and efficient operation of process equipment and control systems while complying with company standards and industry regulations.

Responsibilities

• Install, test, calibrate, and commission field instrumentation and control equipment.
• Maintain and repair pressure, temperature, flow, level, and analytical instruments.
• Troubleshoot instruments, control, and automation system failures.
• Perform preventive and corrective maintenance on instrumentation systems.
• Inspect and maintain control valves, actuators, transmitters, switches, and sensors.
• Read and interpret P&IDs (Piping and Instrumentation Diagrams), loop drawings, and electrical schematics.
• Support Distributed Control Systems (DCS), Programmable Logic Controllers (PLC), SCADA systems, Safety system and HIPPS.
• Conduct equipment performance testing and calibration using specialized test equipment.
• Ensure compliance with safety, environmental, and quality standards.
• Prepare maintenance reports, calibration records, and work documentation.
• Participate in plant shutdowns, turnarounds, and commissioning activities.
• Coordinate operations, maintenance, and engineering teams to minimize production downtime.
• Fully complies with Company H3SE (Health, Safety, Social, Security & Environment) policies and Life Saving Rules.
• Actively participates in HSEQ and promotes this culture to co-workers.
• Remains vigilant and maintains continuous awareness of potential unsafe conditions.
• Communicates to management any HSE related concerns and ways to improve them.
• Maintains a workplace & workspace that is safe, clean, and always neat – practice good housekeeping.

Education & Qualifications

• Degree or Diploma in Instrumentation, Electronics, Electrical Engineering, or a related field.
• Relevant experience in oil and gas, petrochemical, refinery, LNG, offshore, or pipeline facilities.
• Knowledge of industrial instrumentation, process control, and automation systems.

Requirements

• Instrument calibration and troubleshooting.
• PLC, DCS, and SCADA system knowledge.
• Control valve maintenance and diagnostics.
• Loop checking and commissioning.
• HART, Foundation Fieldbus, Modbus, and other industrial communication protocols.
• Use of calibration equipment such as pressure calibrators, multifunction calibrators, and communicators.
• Reading technical drawings and documentation.
• Solenoid valve troubleshooting, maintenance, and fail-safe operation.

Characteristics

• Familiarity with industry standards and safety regulations.
• Ability to work in hazardous environments and follow permit-to-work systems.

Reporting To

Head of Maintenance and Inspection

Driving Licence

Not Required

To Apply for This Job Click Here