



# Job Description

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<b>Job Title</b> Senior Electrical Engineer	<b>Job Location</b> Tanga	<b>Category</b> -
<b>Job Type</b> Full Time	<b>Job level</b> Intermediate	<b>Industry</b> Oil & Gas

## Open to Expatriates

Open to Expatriates & Local Nationals

## Minimum Requirements

<b>Min Budget</b> -	<b>Max Budget</b> -	<b>Primary Industry</b> Oil & Gas: 15 Years
<b>Secondary Industry</b> -	<b>Primary Category</b> -	<b>Secondary Category</b> -
<b>Certificate</b> -	<b>Qualification</b> -	

## Summary

We are looking for a Senior Electrical Engineer who will support Back office Electrical Engineer for site electrical activities. The Senior Electrical Engineer will act as Electrical authority for MV and HV and will provide support and tutoring to electrical site technician(s). Senior Electrical Engineer will manage technicians, service contracts and interfaces with power grid stations or providers. The Position will be in charge of managing electrical service contracts such as UPS, Lighting, HVAC, and vendor maintenance services.

## Responsibilities

- The candidate is responsible for maintenance and inspection activities of electrical equipment as:
  - Pump package driven by electric VFD motor up to 2 M Watts.
  - HV power distribution system
  - Piping Heat tracing
  - Pipeline LLHT system
  - PV farm
  - BESS (Battery system)
  - UPS
  - Electrical Control Panels, MCC, Switchgears, PLC's, VFD's, MoV's, & CB's,
  - Diesel generators (4 M Watts)
  - MVs, HV & LV Systems
  - Building electrical wiring system and lighting system
  - Air Compressors
  - Nitrogen generator
  - Fire Heater, Heat exchanger, Electric Heater
- Act as Electrical Isolation Authority.
- Responsible for electrical work, commissioning validation, safe and efficient operations of AGIs, EITS, HVLV etc.
- Oversee all electrical maintenance activities, providing technical assurance, operational troubleshooting, and resource support during operations and stabilization.
- Ensure the electrical performance / availability of the facilities, highlight miss-functions, compile relevant data, establish a diagnosis, produce corresponding report with corrective actions and participate in the implementation of the agreed plan.
- Prepare periodic or specific reporting of the maintenance activities under position responsibilities.
- Electrical coordination focal point for external power providers.
- Preparation of Procedures for operations and shutdown.
- Participation in operations of electrical incidents or shutdowns, ensure proper investigation and issuance of incidents technical

reports.

- Identify electrical systems optimization to improve availability, reliability, and decrease costs.
- To ensure both planned and unplanned electrical equipment maintenance is done to ensure equipment performance and reliability.
- Assist in the evaluation and participate in the validation of the Site Modification Request (SMR/RFM) and consolidate the technical dossier as an electrical technical authority.
- Participate in validation of the commissioning / pre-commissioning of new or modified electrical. equipment; ensure good management of the punch list after the handover.
- Participate and assist in the project commissioning activities and simops interfaces.
- Develop and implement Electrical Safety Rules and Procedures Startup, and operational procedures ensuring compliance with regulations and standards. Capacity Building
- Be a mentor and trainer to local Engineers and Electrical Technicians
- Develop professional growth plans for safe future handover and operations (Capacity building, coaching, competencies transfer)
- Build a TEAM spirit environment.
- Evaluate the personnels working in the team and make proposals for their training plan.
- Organize On-The-Job Training (OJT) in coordination with the Training Coordinator. Quality Assurance:
- Contribute to optimization of the maintenance plan for critical electrical equipment.
- Analyze major malfunctions and failures for critical equipment and contribute to the corresponding action plans with Electrical Engineer.
- Contribute on supervision of Electrical spare parts management for critical equipment from Contractors by ensuring they respect the agreed methodologies and strategies that are implemented within FO stock policy.
- Assist Electrical Engineer in complex troubleshooting and maintenance activities.
- Develop and implement Electrical Safety Rules and Procedures Startup, and operational procedures ensuring compliance with regulations and standards.
- Be a mentor and trainer to local Engineers and Electrical Technicians
- Develop professional growth plans for safe future handover and operations (Capacity building, coaching, competencies transfer)
- Build a TEAM spirit environment.
- Evaluate the personnels working in the team and make proposals for their training plan.
- Organize On-The-Job Training (OJT) in coordination with the Training Coordinator.
- Assist in supervising and evaluating the performance of the Maintenance service contractor, secure that REXs are well implemented for the maintenance plan to be updated.
- Actively participates in HSEQ and promotes this culture to co-workers.
- Remain vigilant and maintain continuous awareness of potential unsafe conditions.
- Communicate to management any HSE related concerns and ways to improve them.

## Education & Qualifications

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- Bachelor's degree in electrical engineering or similar
- Proficiency in Oral and written English
- Good knowledge of CMIMS (Computerized Maintenance & Inspection Management System).
- Certified MV and HV engineer

## Requirements

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- 15-20 years of experience in Oil & Gas industry, 3-5 years minimum as site Electrical authority, Experience in electrical Power generation, distribution, control and management systems with 10 years' experience on transformers, HV/LV switchboards, HV/LV Motors, ECS and PMS.
- Experience of training mentor and Electrical accreditation process
- Excellent knowledge of Electrical international Standards and Safety Rules
- Reliability, autonomy, analytical, organizational capacity, and strong technical knowledge.
- Excellent knowledge and awareness of HSE compliance.

## Characteristics

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## Reporting To

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Head of Maintenance and Inspection

## Driving Licence

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Not Required

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