

Electro Technical Officer (ETO) - job description

Rank / Position	Electro Technical Officer (ETO)
Department	Engine
Reports to	Chief Engineer

Duties, Responsibilities and Accountabilities

Main requirements:

- **Electro Technical Officer (Reg. III/6)**
- **Advanced Liquefied Gas Tanker Cargo Operation A-V/1-2-2**
- **Minimum of 1 years total sea time in rank.**
- **Minimum of 1 years total sea time on board of this tanker type.**
- **Strong LNG cargo expertise.**
- **Strong knowledge of Diesel-Electric propulsion systems, DC drives/converters and associated systems.**
- **Strong knowledge of Power Management and Integrated Alarm systems.**
- **Strong computer knowledge.**

Main Responsibilities:

- Compliance with safe working practices
- Monitor the operation of electrical, electronic and automatic control systems
- Operate power systems in excess of 1000 volts
- Operate computers and computer networks fitted on board
- Carries out maintenance and repair, with approval from the Chief Engineer and following formal risk assessment procedures, of:
 - Electrical plants and electrical equipment including power systems over 1000 volts
 - Automation and control systems of main propulsion and auxiliary equipment
 - Bridge navigation and communication equipment
 - Electrical, electronic and control systems of deck machinery and cargo handling equipment including electro-hydraulic cranes and limit switches
 - Safety systems, alarms and hotel / accommodation equipment
 - Telephone and internal communication systems
 - Electric davits and winches
 - Reefer container operating and control systems

- Implementing and controlling electrical maintenance schedules within the PMS
- Issue and enforcement of appropriate Permits to Work
- Follows correct Lock-Out Tag-Out / Isolation procedures when working on electrical equipment
- Ensuring no work is done on live electrical equipment
- Ensuring availability and use of correct PPE for protection against electrical hazards
- Allowing for correct safety proximity rules when working on electrical equipment
- Diagnosing and rectifying electrical / electronic faults
- Reporting any defects to the Chief Engineer
- Familiarisation with work of the engineers in order to assist if required
- Speaking up if/when unsafe practices or conditions are identified

Assist:

- With planning of electrical and electronic maintenance
- With the Planned Maintenance System and its documentation related to electrical equipment
-

Chief Engineer with maintenance and repair of air conditioning and refrigerating plants

- With environmental compliance
- With ship security

Ensure:

- That the ship is ready in all respects regarding electrical installations
- Thorough knowledge of electronically controlled main engines where fitted

Acts as:

- Engine Room Watchkeeper as required
- Behaviour Based Safety Observer

Other duties and responsibilities:

- Comply with BSM's SMS, EMS and international standards and regulations
- Form part of the emergency response team (specific duties as per ships emergency organisation)
- Presence in the Engine Room during manoeuvring or as requested by the Chief Engineer or Second Engineer
- Report any non-conformities or defects
- Keep high standards of discipline and behaviour
- Performs additional tasks as assigned by the Chief Engineer and Second Engineer
- Follow the requirements of the Competency Management System (CMS)