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:l Compliance with safe working practicesl Monitor the operation of electrical, electronic and automatic control systemsl Operate power systems in excess of 1000 voltsl Operate computers and computer networks fitted on boardl 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

l Implementing and controlling electrical maintenance schedules within the PMSl Issue and enforcement of appropriate Permits to Workl Follows correct Lock-Out Tag-Out / Isolation procedures when working on electrical equipmentl Ensuring no work is done on live electrical equipmentl Ensuring availability and use of correct PPE for protection against electrical hazardsl Allowing for correct safety proximity rules when working on electrical equipmentl Diagnosing and rectifying electrical / electronic faultsl Reporting any defects to the Chief Engineerl Familiarisation with work of the engineers in order to assist if requiredl Speaking up if/when unsafe practices or conditions are identified |
| Assist:l With planning of electrical and electronic maintenancel With the Planned Maintenance System and its documentation related to electrical equipmentl |

|  |
| --- |
| Chief Engineer with maintenance and repair of air conditioning and refrigerating plantsl With environmental compliancel With ship security |
| Ensure:l That the ship is ready in all respects regarding electrical installationsl Thorough knowledge of electronically controlled main engines where fitted |
| Acts as:l Engine Room Watchkeeper as requiredl Behaviour Based Safety Observer |
| Other duties and responsibilities:l Comply with BSM’s SMS, EMS and international standards and regulationsl Form part of the emergency response team (specific duties as per ships emergency organisation)l Presence in the Engine Room during manoeuvring or as requested by the Chief Engineer or Second Engineerl Report any non-conformities or defectsl Keep high standards of discipline and behaviourl Performs additional tasks as assigned by the Chief Engineer and Second Engineerl Follow the requirements of the Competency Management System (CMS) |