Electro Technical Officer (ETO) - job description

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

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| **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 practices  l Monitor the operation of electrical, electronic and automatic control systems  l Operate power systems in excess of 1000 volts  l Operate computers and computer networks fitted on board  l 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 PMS  l Issue and enforcement of appropriate Permits to Work  l Follows correct Lock-Out Tag-Out / Isolation procedures when working on electrical equipment  l Ensuring no work is done on live electrical equipment  l Ensuring availability and use of correct PPE for protection against electrical hazards  l Allowing for correct safety proximity rules when working on electrical equipment  l Diagnosing and rectifying electrical / electronic faults  l Reporting any defects to the Chief Engineer  l Familiarisation with work of the engineers in order to assist if required  l Speaking up if/when unsafe practices or conditions are identified |
| Assist:  l With planning of electrical and electronic maintenance  l With the Planned Maintenance System and its documentation related to electrical equipment  l |

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| Chief Engineer with maintenance and repair of air conditioning and refrigerating plants  l With environmental compliance  l With ship security |
| Ensure:  l That the ship is ready in all respects regarding electrical installations  l Thorough knowledge of electronically controlled main engines where fitted |
| Acts as:  l Engine Room Watchkeeper as required  l Behaviour Based Safety Observer |
| Other duties and responsibilities:  l Comply with BSM’s SMS, EMS and international standards and regulations  l 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 Engineer  l Report any non-conformities or defects  l Keep high standards of discipline and behaviour  l Performs additional tasks as assigned by the Chief Engineer and Second Engineer  l Follow the requirements of the Competency Management System (CMS) |