

Second Engineer - job description

Rank / Position	Second Engineer
Department	Engine
Reports to	Chief Engineer

Duties, Responsibilities and Accountabilities

Main requirements:

- **2nd Engineer (Reg. III/2)**
- **Advanced Liquefied Gas Tanker Cargo Operation A-V/1-2-2**
- **Advanced Training for Ships Subject to the IGF Code A-V/3-2**
- **Minimum of 3 years total sea time in rank (combined with Chief Engineer)**
- **Minimum of 6 years total sea time on board of this tanker type. (combined with Chief Engineer)**
- **Strong LNG cargo expertise.**
- **Strong STS (Ship to ship operation) track record.**
- **Dual fuel (LNG) engines operational experience.**
- **Strong knowledge of Diesel-Electric propulsion systems.**
- **Strong troubleshooting abilities.**
- **Vessel management skills.**

Main Responsibilities:

- Compliance with safe working practices
- Supervision of and assignment of tasks and activities to engine department personnel
- Management of watchkeeping personnel in the Engine Room and related areas
- Issue and enforcement of appropriate Permits to Work
- Organising the maintenance of technical installations and equipment
 - Supervision of work on electrical systems after approval from the Chief Engineer (Special training and qualification is required for work on electrical systems over 1000V)
- Advising Chief Engineer on:
 - All important matters connected with engine department
 - Progress of maintenance and repair work
 - Matters of seaworthiness and/or cargo-worthiness including cargo pumps, hatches and cranes
- Thorough examination of engine/deck machinery and maintenance records upon joining
- Reporting any defects of the ship's machinery and equipment to the Chief Engineer
- Maintenance of fixed safety systems and equipment
- Controlling and recording the inventory and economic use of:

– Spare gear

- Spares
- Engine stores

- Communicating with Chief Officer on matters affecting the deck department
- Recording and reporting of boiler and engine cooling water tests to Chief Engineer
- Cleanliness and tidiness of engine and boiler rooms
- Status and immediate availability of emergency systems and lifesaving equipment
- Testing of stand-by equipment for immediate use as well as maintaining critical spares
- Control and monitoring of oil pollution prevention equipment including the OWS
- Ensure correct entries in the Oil Record Book Part 1
- Observing standing orders for the management and use of sewage and incineration equipment
- Observing procedures for the control of portable pipes, hoses and pumps

- Control and monitoring of Hot Work Procedures
- Speaking up if/when unsafe practices or conditions are identified
- Ensuring Behaviour Based Safety practices are followed in the machinery spaces

Assist with:

- Planning and control of maintenance and operations
- Training of engine assistants, Cadets, ratings and trainees
- The trainees / cadets must not undertake new tasks without supervision
- Engine crew appraisal process
- Planned Maintenance System and its documentation
- Environmental compliance

Ensure:

- Crew compliance with safety requirements at all times
- Ship is ready in all technical aspects
- Operation of alarm and safety systems prior to placing engines on:
 - Standby
 - Conventional operation
 - UMS (Unattended Machinery Spaces) operations

Acts as:

- Member of the Ship Safety Committee
- Engine Room Watchkeeper
- Substitute for the Chief Engineer when required
- Role model for leadership and exemplary personal conduct
- Behaviour Based Safety Observer
- Deputy Ship Security Officer (Engine)

Other duties and responsibilities:

- Comply with BSM's SMS, EMS and international standards and regulations
- Controls work and rest hours of engine department personnel
- Form part of the emergency response team (specific duties as per ships emergency organisation)
- Report any non-conformities or defects
- Promote good working and social relationships on board
- Implement and monitor UMS operation
- Completion of the Engine Room Log Book
- Maintenance, control and safe use of all supplementary lifting appliances in the engine room
- Correct setting of valves and lines prior to loading lubricants
- Follow the requirements of the Competency Management System (CMS)
- Perform additional tasks as assigned by the Chief Engineer