

Second Engineer

Responsibility and Authority

The 2nd Engineer is responsible to the Chief Engineer for the administration and supervision of the Engine Department and shall liaise closely with the Chief Officer with regard to Deck machinery, systems and Mechanisms maintenance & repairs.

He shall perform his duties in accordance and under supervision of Chief Engineer.

He is to ensure the safe and efficient operation of the Engine room in accordance with MSC Shipmanagement Limited policy and the requirements of the Chief Engineer.

The 2nd Engineer is responsible for the upkeep of Engine Department storerooms and shall keep an updated inventory of all stores and spares which shows at all times the actual quantity of each item on hand. He shall ensure that the stores and spares are properly stowed and that any item may be located without delay.

Duties upon Joining a Vessel

Upon joining a vessel and before taking over, the relieving 2nd Engineer shall report his presence aboard to the Chief Engineer, after which in company with the 2nd Engineer he is relieving, he shall make a thorough inspection, when practicable, of the Engine Department and its machinery and equipment.

In particular he will check the following:

- Inventory and location of all Engine stores and spares
- Latest updated Superintendent Instruction Form Tech 20
- General condition of machinery and any special procedure for operations
- Condition of machinery and pipelines

After completion of his inspection, he shall report the results in detail to the Chief Engineer. Any discrepancies observed shall be the subject of a written report to the Chief Engineer

Person in charge of Maintenance of Engine Room and Shipboard machinery.

The 2nd Engineer will carry out his duties as in charge of Maintenance of Engine room and Vessels machinery as follows:

- Inspection of operational condition and preparing Defect list for the Engine room and on board Machinery, Systems and Mechanisms
- Assigning and delegating works to the Engine Room staff.
- Preparing requisition and inventory of spares and stores
- Supervising of 3rd, 4th, 5th Engineers in assigned to them Planned Maintenance & other works and tasks
- Supervising Engine Room Ratings in assigned to them routine or scheduled jobs & tasks

- Maintaining Safety Standards within Engine Room
- Along with Chief Engineer maintain AMOS
- Assist Chief Engineer to maintain engine room crew discipline.
- Train Engine Department work force, particularly new personnel, to follow safe working practices.
- Ensure that work functions are fully recognized by each man and that work done confirms to established standards. He will also attend the training of the Engine Room staff in firefighting and other emergency and damage control duties.
- Daily conducting of Tool box meeting before commencement of the job and give clear instructions for the safety and job procedures to the relevant staff. At the end of the day he shall convene a closing meeting to review the day's work and procedures.
- Be responsible for Engine room ratings overtime work, which he has authorized and shall keep a detailed account of it. In this respect, he shall ensure that manpower is judiciously utilised to promote effective maintenance work. Also shall control rest hrs of Engine room rating according to flag, MLC requirement. In case of impractical situation to maintain the requirements, He shall arrange the appropriate measures after consulting with Chief engineer to mitigate the fatigue of the applicable crew by means of such a giving compensation rest and / or watch schedule adjustment as much as possible. However he shall ensure company's objective is achieved to have Zero leakage in Engine room and maintain high standards of accommodation
- Shall well implement Risk Assessment & Permit procedure within Department as prescribed by this Manual.

Scrubber Equipment

- In charge of all Components installed in Scrubbing and Wash, water system maintenance.
- Closed loop process water treatment unit's membrane filters and its components maintenance basis its performance.
- Overhaul in charge, guiding EO for all transducers, electro pneumatic valves fitted in Wash water and Exhaust System, Dampers fitted in exhaust System.
- To assist CE Alkali bunkering and its record keeping
- Record keeping of critical spares and notifying CE in case of any short falls.
- Scrubber tower maintenance: Scrubbing and Quench nozzle inspection and maintenance. Demister and packing bed inspection / cleaning / replacement as necessary.
- Assisting CE in maintaining Ph, PAH, Turbidity, Density sensors and CEMS calibration.
- Open and closed loop, cooling and make up water SW pump maintenance.
- To Check water content in ME system and Exhaust system drain [TC casing drain, Exhaust manifold etc.]

Maintenance of Records and log

He is personally responsible for maintenance of records and upkeep of the following forms, logbooks and files with support of Engineer officers.

Lubricating oil test record (on board)

Engine room defect list

Engine room tank sounding log

Daily and Weekly Reports to office.

Chemicals inventory log

Inventory of Spares and PMS Records in Amos

Inventory of Tools

Inventory of all machinery stores

He shall in assistance to Chief Engineer maintain all those files onboard assigned to Engine Department