



Engineer 5

Introduction

The Marine Engineer Class 5 course is a competency-based training. This training provides participants with theory and practical understanding of tasks that are required of a marine engineer to competently perform watch keeping duties on vessels machinery space or be chief engineers on vessels up to 250KW propulsion power on near coastal trade. The training covers broad range of topics areas covering, theoretical engineering knowledge, auxiliary machinery that support the operation of ships, safety rules, electrical and hydraulic systems. The training enables skill building, covering mechanical skill, problem solving skills and analytical skills to be competent when dealing with emergencies at sea.

Objectives

The aim of the course is to prepare participants with the knowledge, skills and attitude to competently perform watch keeping duties as part of the engine room team on ships machinery space or be chief engineer on vessels with propulsion power up to 250KW operating on the coastal trade. The training prepares participants to perform their duties with a safety conscious mind frame and also know how to respond appropriately in the event of emergencies.

Outline

This course content will cover the following areas.

1. Marine engineering mathematics
2. Workshop Safety (STCW Code Table A-VI/1-4)
3. Basic first aid (STCW Code Table A-VI/1-3)
4. Sea survival and survival techniques (STCW Code Table A-VI/1-1)
5. Social responsibility (STCW Code Table A-VI/1-4)
6. Basic maritime security awareness (STCW Code Table A-VI/6-1)
7. Basic firefighting (STCW Code Table A-VI/1-2)
8. Workshop Fabrication
9. Basic welding
10. Marine diesel engines
11. Marine two stroke engines and outboard engine operation
12. Gear boxes and shafting
13. Bilge and Ballast Pumping system
14. Ships electrical system, D.C and A.C systems
15. Hydraulic systems, hydraulic steering and its associated systems

16. Ship construction and stability
17. Vessel slipping and Statutory surveying requirements
18. Refrigeration and air conditioning
19. Fresh water generation and desalination systems
20. Auxiliary machinery and deck machinery
21. Watch keeping duties in the engine room.

Course Outcomes

After successfully completing the Engineer Class 5 training, participants will now have gained the theory and practical skills to competently perform engine room watch keeping duties or be Chief Engineers on vessel below 250KW operating on coastal trade.

Pre-requisite

Intending candidates should be proficient with basic Math and English and have successfully completed engine rating one course.

Training Facilities

Training facilities will require, classroom for theory, welding shop, fitting shop, engine shop, electrical shop and ships for practical projects.

Certificates

On successful completion of the course and passing the mandatory written and oral examinations, candidates will be issued the Engineer Class 5 certificate of competency by NMSA.

Training Details and Costs

Duration:	16 weeks
Time:	08.00am to 04.00pm
Tuition Fees:	TBA
Venue:	PMTC, Konedobu
Min number of persons:	10 persons

For further information please contact:

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