



Marine Technical Propulsion 1 Course

Introduction

The Marine Technical Propulsion course is a competency based training which is a mirror of the merchant marine engineer class 5 level of 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 ships with 500KW engine horse power. 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 have the skills and competency to deal 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 on ships that have horse powers up to 500KW. The training will prepare participants to always perform 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 MTP 1 training course, participants will now have gained the theory and practical skills to perform engine room watch keeping duties for engines up to 500 KW, which coincides with the merchant engineer qualifications equal to the Marine Engineer Class 5; however for merchant qualifications, NMSA requirements need to be complied with.

Pre-requisite

Participants need to have high school education up to Grade 10 level and should be proficient with basic Math and English.

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 all assessments, candidates will be issued a certificate of completion that highlights all areas that have been covered over the 13 weeks of training.

Miscellaneous

Candidates attending this training must be 100% in attendance.

Training Details and Costs

Duration:	13 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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