



Marine Technical Propulsion Level 2 (MTP 2)

Introduction

This training will provide the participants with the knowledge and skills required to safely operate propulsion plant (s) and auxiliary equipment on a vessel not exceeding 750 kW propulsion power. This training shall prepare the marine engineer to perform the duties of monitoring the mechanical, electrical, hydraulic, refrigeration plant, pumping systems, ventilations systems and control equipment, as well as being in charge of engine management systems, maintenance of the machinery in engine room and ship's deck.

Therefore the engineer officer needs to be practical, resourceful and have a real interest in mechanical, hydraulic, electrical systems and identify basic stability requirements on vessels as well as calculate fuel consumption and storage requirements on vessels.

This training will provide participants with the engineering knowledge and skills required to safely operate machinery and maintain electrical equipment on board a vessel.

Objectives

This training integrates practical maintenance work, watch keeping theory, practical application and problem solving exercises to enable candidates to have the required knowledge, understanding and skills to competently perform engineering watch duties and implement maintenance procedures for ships propulsion power not exceeding 750 Kw.

Outline

This course content will cover the following areas.

1. **Sea Safety course**
 - a. Sea survival and survival techniques (STCW Code Table A-VI/1-1)
 - b. Intermediate level firefighting for Officers (STCW Code Table A-VI/1-2) and sections of STCW Code Table A – VI/3.
 - c. First aid (STCW Code Table A-VI/1-3) and medical care (STCW A – VI/4-1)
 - d. Occupational Health and Safety (STCW Code Table A-VI/1-4)
 - e. Social responsibility (STCW Code Table A-VI/1-4)
 - f. Basic maritime security awareness (STCW Code Table A-VI/6-1) (If required)
2. **Electro technology**
 - a. Operate ships electrical and control systems
 - b. Carry out basic maintenance and repair of electrical equipment
3. **Practical workshop and ship board projects**
 - a. Practical engine shop
 - b. Practical Electrical work-shop,
 - c. Fabrication work-shop and
 - d. ship-board systems
4. **Motor engineering.**
 - a. Maintain marine engines below 750 KW
 - b. Operate marine engines below 750 KW
5. **General Engineering Knowledge**

- a. Maintain all machinery in engine room.
 - b. Maintain all machinery on deck
6. **Naval Architecture and ship construction:**
- a. Basic principles involved in vessel design and construction.
 - b. Fundamental stability principles and terms associated with the safe operation of a vessel
7. **Basic engineering science**
- a. Mathematics
 - b. Heat and Heat Engines
 - c. Mechanical science

Course Outcomes

After successful completion of the course the trainee will have the understanding and competency to perform engineering watch duties for ships with engine propulsion powers below 750 KW.

Pre-requisite

The candidate needs to have completed:

- Upper Secondary School having good grades in math, science and English language, both spoken and written.
- MTP 1 course
- Basic sea safety (SOLAS)

Training Facilities

Classroom lessons, simulation activities and ships engine room machinery settings, auxiliary machinery and associated systems related to sea environment.

Certificates

On successful completion of the course and assessments, a certificate of completion will be issued to candidates, certifying that the holder has successfully completed a course of training which meets or exceeds the level of knowledge and competence for Marine Engineer Class 4.

Miscellaneous

Candidates attending this training must be prepared to put in extra hours of work to obtain a pass mark above 70%.

Training Details and Costs

Duration:	6 months
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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