

ABB Marine Academy course description

H861 – General course for deck staff

Course goal

The goal of the course is to familiarize the participants with ABB diesel electric Azipod® propulsion basic features including remote control system, power plant and distribution to Azipod® units.

Learning objectives

Upon completion of this course the participant will be able to

- understand and effectively utilize the technical capabilities of the propulsion system
- communicate in a clear and concise manner the technical and operational features of the system
- understand the operational envelope and limitations of the system

Contents

- Diesel electric Azipod® propulsion system main components and their functions
- Power generation, distribution and consumers
- Azipod® propulsion system terminology
- Frequency converter propulsion with power plant overview
- Azipod® units technical overview
 - Azipod® unit user recommendations
 - Steering gear mechanics and actuation technology
- Alarm conditions
 - Emergency actions in the Azipod® unit space
 - Bridge operator safety signals and alarms
- Remote control units and operation
- Bridge backup/emergency operation
- Azipod® propulsion occupational safety basics

Methods

Lectures and demonstrations

Visits to machine factory and Azipod® assembly factory

Student profile

Deck personnel at support, operational and management level

Prerequisites

None

Duration

4 days



Venue

Helsinki

Additional information

Minimum 6, maximum 8 participants

Modified on-site training is available on request

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Course outline

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Day 1

- Course overview
- ABB marine systems overview
- Electrical machines
- Visit to machine and drive factories

Day 2

- Azipod® propulsion system evolution
- Main mechanical componets
- Azipod® propulsion systems
- Visit to Azipod® assembly factory

Day 3

- Steering gear system
- Remote control system
- Propeller hydrodynamics

Day 4

- Occupational safety
- Assessment

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