

ABB Marine Academy course description

H883 - Azipod® vessel operation, operational level

Course goal

Operational level (STCW) course on twin-Azipod cruise vessel watch keeping in normal and special operational conditions.

Learning objectives

Upon completion of this training, the participants will be familiar with the operational principles of diesel-electric Azipod propulsion systems. They will understand the flexibility of the system and will be able to identify potential malfunctions and to cope with them without sacrificing vessel safety. They will be able to communicate about the different aspects of the propulsion system in a clear and concise manner.

Contents

Diesel electric Azipod vessel system functionalities

- Power plant, distribution and propulsion system
- Azipod thrusters
- Propulsion control

Diesel electric Azipod vessel operation with emphasis on watch keeping:

- Speed control
- Basic maneuvering
- Emergency maneuvers

Power plant behavior in different load conditions

- Reverse power
- Increase/decrease-function
- Optimizing power and plant loading

Effects of power plant and propulsion system malfunctions

- Vessel control in special conditions

Methods

Hands-on exercises on a full mission bridge simulator.
Practical lessons and discussions on diesel electric Azipod propulsion.



Student profile

Azipod vessel deck personnel at operational level (STCW).

Prerequisites

Experience of watch keeping of modern, preferably Azipod vessels, and of bridge simulator training.

Duration

3-5 days

Venue

Helsinki, Finland

Additional information

Maximum 6 participants

Course outline:

Day 1	Day 2	Day 3
Azipod controls	Harbour manouvers	Potential propulsion malfunctions
Speed controls	Diesel electric Azipod propulsion	Azipod vessel emergency operations: Crash stop, Williamson turn
Harbour maneuvers	Simulator exercises	Simulator exercises
Simulator exercises		