

# ABB Marine Academy course description

## H885 - Azipod® vessel operation, management level

### Course goal

Management level (STCW) workshop on twin-Azipod cruise vessel operation and handling covering normal operation, malfunctions and bridge communication.

### Learning objectives

Upon completion of this training, the participants will have deep understanding of the operational principles of diesel-electric Azipod vessels taking into account vessel safety, passenger comfort, environmental and economical requirements and operational efficiency and maintenance needs. They will be able to fully utilize the flexibility of the propulsion system and to identify potential malfunctions of the propulsion system and to cope with them without sacrificing vessel safety. Bridge communication about the different aspects of vessel operation and handling in a clear and concise manner is emphasized.

### Contents

NOTE: The actual content of each workshop is finalized according to the needs and requests of the customer and the participants.

Potential main topics include the following:

- Azipod vessel operation and propulsion system behavior in all conditions
- Azipod vessel system functionalities, power plant and propulsion system malfunctions
- Azipod vessel resource management and bridge communication

### Methods

Training consists of discussions, lessons and full mission bridge simulator exercises to ensure learning at top level. On request, ABB Marine factory experts are at the disposal of the participants to answer questions at all levels.

### Student profile

Azipod vessel deck personnel at management level

### Prerequisites

Several years experience of Azipod vessel operations.



### Duration

5 days

### Venue

Helsinki

### Additional information

Maximum 6 participants.

This workshop is run in conjunction with an approved maritime simulation center.

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## Course outline

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#### Day 1

- Introduction
- Azipod unit controls
- Speed control
- Harbor maneuvers, basics
- Bridge team roles and communication
- Simulator exercises

#### Day 2

- Harbor maneuvers, continued
- Diesel electric Azipod propulsion
- Simulator exercises

#### Day 3

- Potential propulsion malfunctions
- Simulator exercises

#### Day 4

- Azipod vessel emergency operations: crash stop, Williamson turn
- Simulator exercises
- Test runs for energy efficiency

#### Day 5

- Azipod factory tour
- Factory expert technical discussion on Azipod propulsion
- Exam

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