

# H931 – Azipod® VI Technical Training (for ice vessels)

This course provides a deeper understanding of the Azipod® propulsion systems, and how to operate, maintain and troubleshoot the system components.

## Learning objectives:

Upon completion of this course the participant will be able to:

- describe the functions of the different Azipod VI\* sub-systems and how they interact
- understand the importance of correct maintenance
- understand the monitoring possibilities and how to troubleshoot the discussed systems
- perform adjustments on critical system components e.g. hydraulic steering gear pump, EMRI servo unit (ASU36X)

## Contents:

- Safety procedures while working on the Azipod
- Terminology and evolution of Azipod propulsion
- Basics of Azipod hydrodynamics
- Sub-systems, maintenance and conditioning monitoring
- Power, liquid and data transmission system
- Hydraulic steering gear
- Hydraulic pump settings and monitoring (inner-control loop)
- The ASU360 servo unit settings
- Steering angle feedback assembly and adjustment (outer control loop)
- Remote control vs. local control
- Review of Azipod unit space safety adjustment (outer control loop)
- Factory visit

## Methods:

Lectures and demonstrations;  
Workshop exercises with demo equipment;  
Visit to machine factory.

**Duration:** 5 days

## Student profile:

Marine engineers and electro-technical personnel at the operational and management level.

## Prerequisites:

Marine Power Plant Basic for Technical Staff and Azipod® Space Safety course from ABB Marine Academy are advisable.

**Venue:** Helsinki, Finland

## Additional information:

Minimum 6, maximum eight participants;  
On-site training on request.

