

H881 – Azipod® VO Technical Training

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 VO 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

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
- Encoder signal fault tracing
- 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
- Factory visit

Methods:

Lectures and demonstrations;
Workshop exercises with demo equipment;
Manual exercises; general, propulsion, maintenance.

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.