

H863 – ACS6000c NTY Cycloconverter

The participant will learn how to operate, maintain and troubleshoot the ACS6000c Cycloconverter system. The trainee will also learn how to use the available programming and troubleshooting tools with practical exercises.

Learning objectives:

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

- Describe the drive system components.
- Explain the basic operation principle.
- Identify drive components and configure settings.
- Operate the drive.
- Carry out preventive maintenance.
- Perform basic troubleshooting tasks.
- Locate and replace faulty hardware components

Contents:

- Introduction to Variable Speed Drives
- System description
- Operation principle
- Control hardware
- Propulsion control system
- Water cooling system
- Operation of the drive (hands-on)
- Shaft encoder synchronization (hands-on)
- Phase test (hands-on)
- Thyristor replacement (hands-on).
- Software tool DriveWindow (hands-on).
- Preventive maintenance.
- Troubleshooting procedures.
- Life cycle information

Methods:

- Lectures (presentations) and demonstrations
- Perform tests and measurements on a fully equipped demonstration drive
- Visit of MV Drives assembly lines

Duration: 4 days

Student profile:

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

Prerequisites:

Marine Power Plant Basic for Technical Staff and Marine High Voltage Safety course from ABB Marine Academy or similar knowledge is advisable.

Venue: Turgi, Switzerland

Additional information:

Minimum 6, maximum 8 participants.

