COURSE DESCRIPTION

H863 Marine ACS6000c Cycloconverter Operation & Maintenance

Course goal
The goal of this course is to train the participants in the safe operation, control, configuration, troubleshooting and maintenance of the ACS6000c Cycloconverter. The students will develop their knowledge, confidence and skills in the handling of ACS6000c Current Source Inverter.

Main learning objectives
Upon completion of this course, the participants will be able to:

- Understand the safety requirements for medium voltage
- Understand the drive system topology
- Identify drive components and configure settings
- Operate the drive
- Carry out preventive maintenance
- Perform basic troubleshooting tasks
- Locate and replace faulty hardware components

- Software tools
- Hands-on training
- Preventive Maintenance
- Troubleshooting
- Life Cycle information

Hardware description
(power electronics & control)
- Component and PCB functions
- Hardware schematics and electrical drawings
- PCB settings and configuration
- ACS6000c characteristics

Participant profile
Electricians, technicians and engineers, who will operate, maintain or troubleshoot the ACS6000c Cycloconverter drive system.

Prerequisites
- Basic knowledge on synchronous motors and drive systems
- Basic knowledge using computers with Windows

Operation
- Safety requirements
- Energize / de-energize the drive
- Local operation with drive control panel and DriveWindow tool
- Remote control
- Encoder test and Phase test

Fault tracing and troubleshooting
- Alarm and fault indications
- Checking and replacing PCB’s and components
- Using DriveWindow SW tool for configuration and troubleshooting
- How to get help from ABB

Topics
Generalities
- Overview Cycloconverter
- Control hardware
- Power hardware
- Operation

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Course type
This is a face-to-face classroom training with maximum 8 participants.

Learning methods and tools
- Lectures and demonstrations
- Practical exercises with training equipment
- Factory visit

Duration
4 days

To register:
Please apply online (signup required): ABB MyLearning/ H863
Custom-tailored training courses or standard training at additional course dates are available on request.
Please note: The course is only carried out if at least 4 participants have been booked.

Course outline

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Classroom training

Hands-on training