H864 – ACS6000 AD/SD Marine Drive

The goal of this course is to train the participants in the safe operation, control, configuration, troubleshooting and maintenance of an ACS 6000 drive.

Learning objectives:
Upon completion of this course, students will be able to understand the drive topology and understand the function of propulsion and drive control. They will be able locate the hardware components, verify and replace the drive's parts and perform preventive maintenance.

Contents:
- General topics
  - Introduction to ABB Marine Services
  - Safety procedures while working on the drive
  - Medium voltage safety requirements
  - In-depth theory of the ACS6000 drive principles
- Hardware description
  - Functions of components and PCBs
  - Hardware schematics and electrical drawings
  - Installation guidelines
- Water cooling system
  - Cooling circuit description
  - Preventive maintenance
- Operation
  - Energizing and de-energizing the converter
  - Start/stop sequence
- Software introduction
  - Inverter and excitation software concept
  - Data exchange between modules
  - Setting parameters using CDP and DriveWindow
- Fault-tracing and troubleshooting
  - Interpretation of alarm and fault messages
  - Replacement of PCBs and components
  - Getting help from ABB

Methods:
Classroom lectures with demonstrations using the training drive; Practical lessons on the training drive.

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 in ABB propulsion and Marine High Voltage Safety course or similar knowledge is advisable.

Venue:
- Singapore
- Houston, USA
- Turgi, Switzerland

Additional information
Minimum 6, maximum 8 participants;
On-site training is available on request.