

# H900 – Power Management System – Electro Technical Course

The course starts from the Electrotechnical aspects of a marine AC power plant equipment to get to the operations of the ABB 800xA control system using with ABB AC800M.

**Learning objectives:**

After completing the course successfully, the student will have a comprehensive background of the Marine Power Management, including engineering, dimensioning, troubleshooting and fault tracing. On request, a deep insight session on several ABB products is available.

**Contents:**

- Onboard Power Management
- Generators control concept
- PID controller
- Generators Parallel concepts and Synchronization Droop control mode
- Reverse Power & Loss Excitation concepts
- Harmonic Distortions and power distribution disturbances
- Waveforms analysis
- Fault tracing
- Restore After Blackout understanding

**Methods:**

Workshop held in a classroom;  
Theory and exercises on PMS demo application;  
Fault tracing by identifying issues from abnormalities.

**Duration:** 2 days

**Student profile:**

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

**Prerequisites:**

Marine Power Plant Basic for Technical Staff in ABB propulsion and Marine High Voltage Safety or similar knowledge is advisable.

**Venue:** Genoa, Italy

**Additional information:**

Minimum 6, maximum 8 participants.

