H870 – LV Power Distribution System

The goal of this course is to train the participants in safe operation, control, configuration and maintenance of ABB LV switchgear MNS, air circuit breakers, molded-case circuit breakers and soft-starters.

Learning objectives:

Upon completion of this course, students will be able to locate hardware components, to under-stand and verify switchgear parts, breaker inter-nal components and components inside cubicles. Students will also be able to perform mainte-nance, and identify low voltage electrical safety hazards.

Contents:

- · General topics
 - Safety procedures while working on theswitchboard
 - Introduction to ABB Marine Service
 - General marine power plant
- Power plant regulation principles
- Hardware description
 - LV switchboard MNS compartments
 - Generators, motors and transformers
- Air circuit breakers, protection releases and-
- Molded-case circuit breakers, protection releases and accessories
- Introduction to soft-starters
- Operation
 - Removal and installation of air circuit breaker
 - Manual charging of breaker spring and operation
 - Demonstration of use of protection relays
 - Racking of module drawers and identification of various positions of rotary handles on the modules

Methods:

Classroom lectures.

Demonstration and practical lessons on our

Duration: 2-4 days

training switchgears.

Student profile:

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

Prerequisites and recommendations:

None

Venue:

- Rotterdam, Netherlands
- Houston, USA

Additional information:

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