

ABB Marine Academy course description (EN)

H855 – High Voltage Technology, Operational Level

Course goal

This course has been designed to satisfy the HV requirements laid out in the Standards of Training, Certification and Watchkeeping (STCW), Manila Amendments, and it is approved by the Italian Minister of Transportation, decree 15th February 2016 (16A01447).

The course defines the mandatory knowledge to meet the competence on marine High Voltage electrical installations, at operational level, for engine officers designed to work on vessels equipped with High Voltage devices (>1000V) and Electro Technical Officers (ETO), as per sections A-III/1, AIII/3 e A-III/6 of STCW code.

Learning objectives

Upon completion of this course, the trainees will be able to identify high voltage devices, understand dangerous situations and set up safety procedures for safe working. This will mean that the trainee meets the requirements laid down in the Knowledge, Understanding and Proficiencies for High Voltage installations set out in Tables A-III/1 of the STCW Convention and Code 1978, as amended.

Contents

- Theory on High Voltage devices location
- Dangers on High Voltage
- Personal Protection Equipment
- Procedures of safe working on High Voltage installations
- Laws: Rules and guidelines
- Earthing system

Method

Educational lesson

Student profile

Engine personnel at the operational & management levels and all electro-technical personnel who are dealing with high voltage equipment and systems



Prerequisites

Prior to the course, trainees must satisfy following conditions:

- Have completed 6 months sea time as EOOW and during onboard training activities
- Own a valid Basic Training certificate

Duration

5 hours

Venue

Genova (Italy),
c/o ABB Marine Academy and University of Naval Architecture (DITEN)

Language

Italian, English

Additional information

Maximum 20 participants per course

H855 – High Voltage Technology, Operational Level

Course Outline

Day 1 (5 hours)

High Voltage installations
Insulated and earthed neutral status on Low Voltage installations
Personal Protection Equipment
Electrical Safety and dangers on High Voltage installations
Laws: Rules and guidelines
Analysis on safe procedures of insulation processes
Earthing systems
Final Exam