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 (>1000 V) 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

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

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