

HIGH VOLTAGE SWITCHGEAR TRAINING COURSE

Operation Level – MPA, Singapore Approved

Course Code : AT 3105



Course Length (Days)	Taught Hours	Practical Content (%)	Theoretical Content (%)
03	20	50	50

TARGET AUDIENCE

This course is designed for the serving MEO class 5, EOOW or Marine Electrician who will be working or planning to work on HV system in a ship. This course will meet the requirement as per the III/1 (Operation Level) ref MPA Shipping circular to ship owner, No 10 of 2014 requirement.

COURSE OBJECTIVES

This course aims to train mariners to be capable of managing high voltage operations on board ship, understanding the high voltage distribution system & the importance of maintaining distribution capability, and identifying faults within a high voltage system and reconfigure the system to maintain supply. The course contents of this course meet the STCW (Manila Admendment-2010) and it is also certified by MPA (Maritime Port of Authority of Singapore).

COURSE CONTENT

- Understanding of the functional, operational and safety requirements for Marine High Voltage System.
- Assistance to suitable qualified personnel in carrying out maintenance and repair of HV Switchgear.
- Understand the concept of PTW & SFT and trainees are expected to show this understanding during practical
- Selection of suitable equipment for isolation and testing Marine HV equipment.
- Isolation and earthing procedure on a Marine HV System, complete with Safety documentation.
- Performance of insulation resistance and polarisation index test on Marine HV equipment
- Performance of Hi-pot test on Marine HV equipment
- Performance of thermal imaging
- Theory and practical assessment.

DELIVERY

Teaching aids, slides, videos, practical demonstrations, questionnaires, practical assessment.

EQUIPMENT FOR PRACTICAL TRAINING

HV Switchboards and components, HV motor stator and winding, and HV transformers.

CERTIFICATION

MPA, Singapore High Voltage Management Level Certification

Minimum Number Of Delegates Required Per Event
10

Times Of Training

08:30 to 17:00

Venue

No. 3, Buroh Street , Singapore 627566

Entry Requirements

- Delegates should have basic knowledge of electrical theory and practice.
- Prior Electrical or Electro-technical experience in a Shipboard environment.
- Have completed 12 months sea time.

Special Requirements

- Delegates are required to supply their own personal protective safety equipment.

Dates And Prices

Please check with course administrator.