

HIGH VOLTAGE SWITCHGEAR TRAINING COURSE

Management Level – MPA, Singapore Approved

Course Code : AT 5104



Course Length (Days)	Taught Hours	Practical Content (%)	Theoretical Content (%)
05	35	50	50

TARGET AUDIENCE

This course target audience is the serving MEO class 1 & 2, ETO, Marine Engineer surveyor, Marine superintendent, Marine Engineer officer who may be expected to supervise and/or implement on-board HV switching operation as an Authorised person; and preparatory as Chief Engineer officer COC as per the III/1 and III/2 (Management Level) ref MPA Shipping circular to ship owner No 10 of 2014 requirement.

COURSE OBJECTIVES

The approving body is Maritime Port Authority of Singapore. The course meets the requirement of STCW (Manila amendments 2010).

The learner will meet the three outcomes of the course:-

Outcome 1: The learner can manage high voltage operations on board a ship.

Outcome 2: The learner understands the high voltage system and the maintenance of distribution capability.

Outcome 3: The learner can identify faults within a high voltage system and reconfigure the system to maintain supply.

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
- Remedial action necessary to rectify a HV System fault.
- Switching strategy for isolating Marine HV components.
- Selection of suitable equipment for isolation and testing Marine HV equipment.
- Switching and isolation 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 and 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 as EOOW.
- Or part of an initial Electro-technical training programme.

Special Requirements

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

Dates And Prices

Please check with course administrator.