



## Electro-Technical Officer Workshop Skills Training

**UT-ENG-DMA-014**

### Course Overview

This ETO Workshop Skills Course provides knowledge and skills to operate, supervise and monitor the safe operation and control of the ship's machinery in accordance with the requirements of the STCW Convention, 1978, as of the STCW convention amended (including Manila amendments) and the STCW Code, relevant Section A-III/6 and table A-III/6.

#### Electro-technology and electrical machines theory

- Basic concept of electrical laws
- Dc circuit and ac circuits
- Magnetism and electromagnetic induction
- Fundamentals of electrical machines
- Power distribution boards
- Electrical device for power distribution
- Other marine electrical devices

#### Automation, automatic control system and technology

- Instrumentation, alarm and monitoring systems
- Electrical drives: ac motor dc motor 3 phase motor
- Conductor and electro-hydraulic and electro-pneumatic systems
- HV system hazards
- Propulsion control
- Coupling, load sharing and changing over generators
- Coupling and breaking connection between switchboards and distribution panels
- Safe operation and maintenance of high voltage system

#### Data processing

- Computer networks on ship
- Telephone systems: sound powered pa uhf,.
- Safety requirements



**STANDARD**

DMA



**FREQUENCY**

on demand



**DURATION**

88 Days



**LANGUAGE**

English/Myanmar



**PRICING**

Contact UT Admin



**PREREQUISITES**

Electrical Engineer



**VALIDITY**

5 YEARS





**UNITEAM TRAINING**

### **Maintenance and repair**

- Test instruments
- Diagrams and symbols
- Automation & control systems of main propulsion and auxiliary machinery
- Electrical and electronic equipment
- Deck machinery: cranes containers, liquid cargo
- Explosion proof equipment,
- Galley laundry
- Hotel lighting and alarms