



This course is designed for Electricians and Engineer Officers. It covers essential aspects of electrical fundamentals and provides knowledge & ability in the detection, analyses and repair of faults on electrical equipment & systems.

**COURSE AIMS:** The course aims to provide applied knowledge and practical skills in the operation, maintenance, faultfinding, and troubleshooting procedures for electrical equipment and systems with emphasis on improving ability to read and interpret electrical diagram.

In particular, the course shall enable trainees to:

- Perform safe and proper operating procedures of using common test instruments (i.e. Multitester, Clammeter, Megger Tester, and other related instruments).
- Read, interpret, and draw basic circuit diagrams for lightings, transformers, motors, and fundamental motor starters and controllers.
- Setup wiring assembly & connection for common lighting fixtures and circuitry, transformers, single-phase and three phase motors as well as its fundamental starters and controllers.
- Trace and rectify common faults on lighting circuits, transformers, motors and starters.
- Perform safe and proper maintenance on storage batteries used onboard vessel.

#### COVERAGE / PROGRAM FOCUS:

- Electrical Safety
- Circuit Testing & Test Instruments
- Storage Batteries
- Electrical Drawings & Schematics
- Reading Techniques
- Circuit Breakers
- Transformers
- Switches, Relay and Contactor \
- Electric Motorts
- Motors and Starters
- Ship's Lighting: Assembly and Connections
- Fault Finding: Procedures and Techniques

**METHOD:** Combination of lecture & workshop instruction with intensive practice exercises focused on developing and enhancing ability to analyze, detect and repair electrical faults/errors.

**ENTRY REQUIREMENT / TARGET GROUP:** Preferably experienced as Electrician or Engineer Officer

**COURSE CERTIFICATE:** A Certificate of Completion is given to each participant who satisfactorily fulfills the course.

#### DURATION:

2 Weeks

(10 Days: 0830H – 1600H)

#### 2011 DATES:

1. Jan 10-14 / 17-21
2. Feb 21-25 / Feb 28-Mar 04
3. Apr 04-08 / 11-15
4. May 09-13 / 16-20
5. May 30-Jun 03 / Jun 06-10
6. Jun 27-Jul 01 / Jul 04-08
7. Aug 01-05 / 08-12
8. Aug 15-19 / 22-26
9. Sept 05-09 / 12-16
10. Sep 26-30 / Oct 03-07
11. Nov 21-25 / Nov 28-Dec 02
12. Dec 05-09 / 12-16

#### COURSE

#### CONTRIBUTION:

USD 709.00

(NSA Member)

USD 788.00

(Non-NSA Member)

*Inclusive of course  
materials/handout*

## Register

ADDRESS: Norwegian Training Center-Manila Gate 2 TESDA Complex, East Service Road, Taguig City, P

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