



SHIP ELECTROMECHANICAL 1 / ELECTRICAL TRADESMAN 1

Introduction

This course offers relevant skills in understanding the principle of electrical equipment and maintenance of the ship. It covers the important principles and hands-on features governing the operation, maintenance, and repair of electrical equipment and common control systems found on board. Training instruction and activities are based on actual devices to take full advantage of the practical aspects of the work carried on board.

Objectives

After completing this course those successful individuals should be able to show skills in trouble shooting and locating the faults on electrical circuit on board. They must possess professionalism on their workmanship and observe safety in every job undertaking.

Syllabus

- Electrical Safety
- Electricity Sources and Fundamentals
Battery and UPS Maintenance
- Types of Schematics
- Electric Motors and Generators
Three Phase AC Motor Operation and Connection
- Brushless 3 Phase AC Generators
- Lighting and Motor Controller Speed Controller
- Electrical Testing and Measurements
- Pneumatic and Electro-pneumatics
- Introduction to Programmable Controller
- Basic Refrigeration and Air Conditioning

Course Outcomes

The successful candidates demonstrated the skills in; differentiating the kind of electricity on the ship, can

analyze and trouble-shoot the problem in electrical circuits, trouble-shooting motor control boards and switchgears, synchronizing the generator, and handling and reading properly the test instruments.

Teaching and Mode of Delivery

Lecture and Practical Exercise Method.

Requirement

- All candidates should have a valid Fire Fighting certificate and valid medical fitness certificate.
- All candidates must be conversant and literate in English

Availability

- Available upon request
- Candidates to bring along ID/passport on first day of course.

Assessment

In addition to a formal written assessment the candidates will be assessed through oral examination.

TRAINING DETAILS

Duration: 8 weeks
Time: 08.00am to 03.00pm
Venue: PMTC, Konedobu
Course Fees: TBA
Minimum number of trainees: 10 persons per class

For further information please contact:

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