

# B.E., Marine Engineering Course

@ Sri Nandhanam Maritime Academy, Tirupattur

## Purpose

To provide relevant information to prospective students on this course in a detailed and complete manner to assist them in making their Career/ Course Choices.

## Course Overview

B.E., Marine Engineering is a 4 Year Presea Training Undergraduate Degree Program approved by DGS, AICTE and Affiliated to Anna University. In a nutshell, Marine Engineering is a branch of engineering that deals with the architecture and science of sea vessels towards facilitating trainees to engage in efficient operation of ship engines and other systems onboard. This training also facilitates employment opportunities on offshore structures by virtue of the same being sea floating structures similar to ships.

## Course Highlights

1. Complete ETO Course as per DGS Syllabus
2. Complete Competencies Training (TAR Book)
3. Focus on Fault Rectification Training above Syllabus
4. Instrumentation & Process Control Simulator Training
5. Disciplined 4 Month Presea DGS Training Routine
6. Package includes High Voltage Certification
7. Course Package includes STCW Courses
8. Course Package includes Placement

## Course Outcomes

Overview of equipment onboard a ship like electric generators, HVAC systems, Control Panel Boards, electrical supply/ distribution installations, reefers, hardware and networking systems, radio communications, electronic navigation needs like echo

sounders, Gyro compass, Weather Fax, auto pilot, RADAR system, Broadcast and internal aerial system, telephone and talk back system and satellite communications. Knowledge of ship electrical drawings, electrical design and earthing systems of a ship. Knowledge of electrical/ electronic machinery on board a sea floating structure (Ships / Offshore Platforms - Only @ SNMA - dual segment training).

### **Employment after Course Completion/ CoC Exams`**

Work as an Electro Technical Officer (ETO) in: (1) Sailing on Merchant Vessels and Cruise Ships; (2) On Offshore Platforms on Sea (if trained at SNMA); (3) Dry Docks and Ship Building Yards (if trained at SNMA).

### **Certifications Package: Only @ SNMA**

- ✓ Electro Technology Officer Certification by Directorate General of Shipping
- ✓ High Voltage Endorsement by Directorate General of Shipping
- ✓ Automation Training & Certification @ Honeywell Technologies
- ✓ Switchgear Training & Certification @ L&T Training Center
- ✓ Maritime English: Marlins ToSE (Officer Level)
- ✓ Electrical CADD Certification by CADDPOINT
- ✓ Industry Specialist Certifications:
  - a. Electrical Panel Designing
  - b. Building Management Systems
  - c. Hardware and Networking

### **Employment Edge: Only @ SNMA**

- ✓ Training fits for dual mode employment in Sailing & Offshore Structures
- ✓ Specific Training on Skills: Job Performance & Retention
- ✓ Corporate & Specialist Certifications: Better Considerations at Recruitment

### **Cons @ SNMA: Know the Difference**

1. Too much training/ work, elaborate syllabus, extensive knowledge
2. Training exceeds requirements of Sailing Ship ETO Course alone
3. Necessity to complete Corporate Certifications at Facilities in their location

#### 4. Exams Failure at Specialist Certifications: Panel Design, Electrical CADD

### Pros @ SNMA: Know the Difference

- (Optional) Placement Guarantee Programme
- Remain Employed - Dual Segment Training: Sailing Ships & Offshore Platforms
- Corporate Certifications: Priority in recruitment considerations globally
- Addl Subject Skill Certifications: Performance on Your Job & Job Retention
- Cost of all addl certifications included in course fees
- Extensive Laboratory Setup: Around 15000 SFT for Labs for Electrical Course
- Electrical Labs:, Advanced Electricals, Synchronisation,
- Electronic Labs: Hardware & Networking, BMS, Navigation Equipments
- Mechatronics & Instrumentation Labs: Hydraulics, Pneumatics, Refrigeration
- System Labs: Electrical CADD, PC Based Simulator for Ancillary Engine
- Ship-in-Campus Training: Familiarity with Operations/ Engine Room/ Bridge
- Simulator Training under Tie-up Arrangements @ Chennai Facility
- Includes Cost of High Voltage Course Endorsement
- Higher Education Institute with 15 Years Experience: Large 50 Acre Campus

### Difference in Studying @ SNMA:

Refer Briefing: Teaching Methodology at Sri Nandhanam Maritime Academy.

### Difference in Placement:

1. Placement Assistance Programme: As usual with all large institutions (Default)
2. Guarantee Placement Programme: Ensures your placement (Optional)
3. All Presea Courses in Single Campus: Reputation of Credibility at Recruitment
4. Short NCV sailing onboard ship experience: Employers feel comfortable

### Comprehension Verification

*Steps to check for student understanding (Tick what you know)*

- Certification from Authority (DGS/ University/ DoTE/ BEST)
- Industrial/ Ship Visits, Internships, Workshops / Seminars
- Simulator Training at Campus and at Chennai: Only at SNMA
- Certifications Package for Sailing: Only at SNMA

- ❑ Certifications Package for Offshore/ Dry Docks: Only at SNMA
- ❑ Multisegment Job Roles Training: Only at SNMA
- ❑ Extensive Lab Facilities: Only at SNMA
- ❑ Large Campus with all amenities: Only at SNMA
- ❑ Personality Orientation Program: Only at SNMA
- ❑ Short NCV Sailing Experience: Only at SNMA
- ❑ Optional Placement Guarantee Program: Only at SNMA

**Further Details:**

Visit Website @ [www.nandhanam.edu.in/snma](http://www.nandhanam.edu.in/snma)

Write for queries/ additional info to: [admissions@nandhanam.edu.in](mailto:admissions@nandhanam.edu.in)