



**NORWEGIAN TRAINING CENTER-MANILA**

of

**NORWEGIAN MARITIME FOUNDATION OF THE PHILIPPINES, INC.**



## 41 ENGINEERING SYSTEM (ES)

### **SCHEDULE:**

This course shall be conducted only upon request with minimum of five (5) participants.

### **DURATION:**

**1 Week**  
(5 Days: 0830H – 1600H)

### **COURSE CONTRIBUTION:**

**USD 357.00**  
(NSA Member)

**USD 394.00**  
(Non-NSA Member)

*Inclusive of course materials/handout*

This course is designed for Engineer Officers. It provides essential concepts and understanding of the practical application on various marine engineering processes onboard ship. The core of instruction deals with the functions and working principles of various marine engineering machineries with emphasis on developing aptitude and confidence toward safe and efficient operation and maintenance of different engine room machineries and equipments.

**COURSE AIMS:** The course aims to upgrade and update the Engineer Officer's technical know-how on various engineering systems onboard and develop a sound understanding of the need for effective and adequate system monitoring and maintenance.

**COVERAGE / PROGRAM FOCUS:** The course deals with the following subject & training areas:

- Introduction: Engine Room Systems and Operation
- Engine Room Safety – Standard Operating Procedures (Do's & Don'ts)
- Machinery Operating Manuals & Particulars
- Engine Room Layout
- Engine Room Operations
- Engine Room Machineries and Piping Systems
- Engine Room Safety and Life Saving Systems
- Main Engine Performance: Calculation & Analysis
- Fuel Oil & Lube Oil Qualities
- Cooling Water & Boiler Water Treatment/Analysis
- Special Topics: - Engine Room Pollution Prevention & Monitoring  
- Engine Room Simulator (Familiarization)

**METHOD:** The course shall be conducted employing lectures with presentation. Group and cooperative-learning discussions are focused on various aspects influencing effective engine performance and efficient fuel consumption as well as solutions to problems commonly encountered on board. The use of CBT and/or engine room simulator shall be arranged accordingly.

**ENTRY REQUIREMENT:** Preferably experienced as Engineer Officer

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

# Register

**ADDRESS:** Norwegian Training Center-Manila Gate 2 TESDA Complex, East Service Road, Taguig, Metro Manila, Philippines

**TRUNKLINE NO:** (632) 812-07-42 | **FAX NO:** (632) 812-67-28 | **WEBSITE:** [www.ntcm.com.ph](http://www.ntcm.com.ph) | **EMAIL:** [ntcm.registrar@ntcm.com.ph](mailto:ntcm.registrar@ntcm.com.ph)