



**NORWEGIAN TRAINING CENTER-MANILA**

*of*

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



## 83L ARC WELDING AND GOUGING (SEA FASTENING)

### **DURATION:**

5 Days  
(0830H – 1630H)

**COURSE CONTRIBUTION:**  
USD 551.00

Each participant will have a welding set at his disposal throughout the course

This welding course is designed to provide information and technical know-how on the welding method used for heavy lift vessels and to provide the basic skills on how to make such welds with reference to industry standards. In particular, the course is intended to develop and prepare crew of heavy-lift vessels in the use of heavy duty arc welding equipment and consumables used for welding and removal of deposited fillet welds using the air carbon arc gouging method.

**COURSE AIMS / OBJECTIVES:** At the end of the course, trainees should be able to:

1. Identify the welding and gouging requirements on "heavy- lift" vessels;
2. Identify and eliminate hazards on sea fastening- welding;
3. Deposit welds in the horizontal vertical position using high recovery and low hydrogen electrodes with the arc welding process; and
4. Gouge away fillet welds on tee joints using the AIR CARBON ARC GOUGING method.

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

- Sea Fastening Welding
- Safety Hazards in Welding and Cutting
- Welding Processes and their Applications Onboard Heavy Lift- Vessels
- Welding Fundamentals
- Arc Welding Power Sources and Accessories
- Welding / Air Carbon Arc Gouging Consumables and Data Sheets
- Welding and Gouging Protective Equipment
- Deposit Fillet Welds in the Horizontal Vertical Position with High Recovery Electrodes
- Deposit Fillet Welds in Horizontal Position with Low Hydrogen Electrodes
- Air Carbon Arc Gouging, System and Application and Safety
- Set-Up Air Carbon Arc Gouging System
- Gouge Fillet Welds With The Air Carbon Arc Gouging Method

**DURATION & METHODOLOGY:** The total duration of the course is **40 Hours** to be conducted in a five (5) Day period of eight (8) hours per day

**ENTRY REQUIREMENT / TARGET GROUP:** Shipboard personnel who will be engaged to do sea fastening welding and gouging on heavy lift vessels. Preferably can manipulate arc welding and gouging equipment.

**COURSE CERTIFICATE:** A Certificate of Attendance and a Course Diploma will be issued to each participant who fulfills the course completion requirements.

# 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)