



NORWEGIAN TRAINING CENTER-MANILA

of

NORWEGIAN MARITIME FOUNDATION OF THE PHILIPPINES, INC.



83A ADVANCED WELDING COURSE

DURATION:

10 Days
(0830H – 1630H)

COURSE

CONTRIBUTION:
USD 945.00

Inclusive of course materials compiled in a ring binder

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

VARIOUS ONBOARD WELDING PROCESSES

This course is designed to increase the skills and broaden the knowledge of Fitters on the available range of maritime welding processes.

COURSE AIMS / OBJECTIVES: Upon completion of the course, participants should be able to:

- select and operate the available range of Unitor welding equipment for onboard repairs; and
- perform more advanced welding operations to a degree nearing that of a “Qualified” welder.

COVERAGE / PROGRAM FOCUS: This course provides:

- knowledge and understanding of common arc and gas welding equipment for onboard repairs;
- knowledge on the proper selection of welding equipment for specific welding repair, the right choice of consumables and their uses, as well as the safety practices involved;
- training to develop the manual skill necessary to perform the basic Tig and Mig/Mag welding;
- training to develop the manual skill for advanced plate and pipe welding using electrodes;
- training to develop the manual skill necessary to make reasonable cuts on stainless and non ferrous metals using Unitor Plasma arc cutting equipment.

DURATION & METHODOLOGY: This 10-day, 76-clock hour program consists of 10 hours of theoretical instructions and 66 hours of practical welding exercises.

ENTRY REQUIREMENT / TARGET GROUP: Existing Fitters with Arc and Gas Welding training

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 | **EMAIL:** ntcm.registrar@ntcm.com.ph



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83A ADVANCED WELDING COURSE OUTLINE / COVERAGE

TRAINING AREAS	Duration (in hours)
GENERAL BRIEFING / ORIENTATION	1.0
PART I: THEORETICAL INSTRUCTION	
1. SAFETY IN WELDING 1.1 Welding hazard 1.2 Safety in Welding	1.0
2. METALS AND ALLOYS 2.1 Ferrous / Non ferrous 2.2 Properties / Use 2.3 Weldability	1.0
3. SELECTION OF WELDING CONSUMABLES 3.1 Welding Rod / Electrode 3.2 Gasses	1.0
4. WELDING PROCESSES 4.1 SMAW 4.2 OAW (brazing, soldering, heating, cutting) 4.3 GTAW - TIG 4.4 GMAW - MIG/MAG 4.5 THERMIC SPRAYING	3.0
5. FILM SHOWING 5.1 ARC Welding 5.2 GAS Welding 5.3 MIG Welding 5.4 TIG Welding 5.5 ROTOTEC Process 5.6 SPRAY JETS	2.0
6. WELDING FUNDAMENTALS 6.1 Types of Joints 6.2 Welding Position 6.3 Types of Welds 6.4 Basic Standard Code 6.5 Weld Defects	3.0

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TRAINING AREAS	Duration (in hours)
PART II: PRACTICAL INSTRUCTION	66.0
<ul style="list-style-type: none"> - Arc weld of mild steel in 1 G, 2G, 3G, 4G, position - Arc weld of mild steel in 1 F, 2F, 3F I 4F, position - Arc weld M.S. pipe in all position (2G / 3G / 5G) - Gas weld cast Iron plate - Braze galvanize pipe, copper & brass - Silver solder brass, copper plates/pipe, Yorcalbro & Cunifer - Tig weld s/s pipe, Yorcalbro and cunifer pipes - MIG/mag welding of Aluminum plate - Repair and rebuild .by means of Thermic sparaying process. 	
SUMMARY / ASSESSMENT / COURSE EVAUATION	2.0
TOTAL	80 Hours

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