



*Training Course:  
Comprehensive Welding*

*3 - 7 November 2024*

*Cairo (Egypt)*

*Holiday Inn & Suites Cairo Maadi, an IHG Hotel*

## Training Course: Comprehensive Welding

Training Course code: EN234643 From: 3 - 7 November 2024 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel Training Course Fees: 3900 € Euro

### Introduction

This course is designed to provide a foundation and build your skills in the welding processes. Each student will be trained in the proper welding fundamentals, skills, and techniques necessary for producing code approved welds. Student welding is 90% of the time, classes are stand-up lecture and/or classroom theory. This course is about gaining the welding ability and skills needed for success. Processes covered are:

- SMAW Shielded Metal Arc Welding [Stick]
- FCAW Flux Cored Arc Welding [Dual shield/Inner shield]
- GMAW Gas Metal Arc Welding [Mig]
- Oxy-Acetylene and Oxy-Fuel cutting

### Course Objective of Comprehensive Welding

The course is designed for the student to have a good understanding, solid foundation, and the skills needed for a career in welding. Each student will be trained in the SMAW and FCAW welding processes for performing full penetration welds in all positions.

### Processes Covered:

- SMAW Shielded Metal Arc Welding [Stick]
- FCAW Flux Cored Arc Welding [Dual shield/Inner shield]
- GMAW Gas Metal Arc Welding [Mig]
- Oxy-Acetylene welding, cutting, heating, and brazing

## Course Outlines of Comprehensive Welding

- Welding safety and instruction
- Oxy-Acetylene safety and proper use when cutting
- Arc and wire feed welding equipment set-up
- Wire feed gas selection - pros and cons
- Electrode designation and storage
- Fillet welds - how to properly weld and measure them
- Identification of welding symbols
- How to read basic blueprints
- How to read and use a Welding Procedure Specification WPS
- Weld and fit-up of groove welds
- Perform air carbon arc gouging
- How to troubleshoot welding equipment
- Complete joint penetration welds, with and without backing
- Grinding safety

Trainees will be taught the joint designs used in structural fabrication. Each welder will be given multiple projects from groove welds with backing and without backing. Welders will be taught basic fit-up, pre-heat, and basic joint tolerances and how to properly weld these joints. The final project will be all-position welding on a plate, with the opportunity to test for two AWS certifications in either SMAW or FCAW Typically in the 3G or 4G positions

## Registration form on the Training Course: Comprehensive Welding

**Training Course code:** EN234643 **From:** 3 - 7 November 2024 **Venue:** Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel **Training Course Fees:** 3900 € Euro

Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

### Delegate Information

Full Name (Mr / Ms / Dr / Eng): .....

Position: .....

Telephone / Mobile: .....

Personal E-Mail: .....

Official E-Mail: .....

### Company Information

Company Name: .....

Address: .....

City / Country: .....

### Person Responsible for Training and Development

Full Name (Mr / Ms / Dr / Eng): .....

Position: .....

Telephone / Mobile: .....

Personal E-Mail: .....

Official E-Mail: .....

### Payment Method

- Please find enclosed a cheque made payable to Global Horizon
- Please invoice me
- Please invoice my company

### Easy Ways To Register

Telephone:  
+201095004484 to  
provisionally reserve your  
place.

Fax your completed  
registration  
form to: +20233379764

E-mail to us :  
info@gh4t.com  
or training@gh4t.com

Complete & return the  
booking form with cheque  
to: Global Horizon  
3 Oudai street, Aldouki,  
Giza, Giza Governorate,  
Egypt.