



*Training Course:  
Comprehensive Welding*

*31 January - 4 February 2027  
Sharm El-Sheikh (Egypt)  
Sheraton Sharm Hotel*

## Training Course: Comprehensive Welding

Training Course code: EN234643 From: 31 January - 4 February 2027 Venue: Sharm El-Sheikh (Egypt) - Sheraton Sharm Hotel Training Course Fees: 5100 € Euro

### Introduction

Welding is a critical fabrication process used across industries such as construction, oil & gas, manufacturing, and infrastructure. A comprehensive understanding of welding techniques, materials, inspection methods, and quality standards is essential to ensure structural integrity, safety, and operational efficiency.

This program, designed by Global Horizon Training Center, provides participants with in-depth knowledge and practical skills covering all major aspects of welding, from fundamental processes to advanced applications and quality control.

### Course Objectives

By the end of this program, participants will be able to:

- Understand a wide range of welding processes and applications
- Select appropriate welding techniques based on materials and requirements
- Identify welding equipment and consumables
- Apply welding procedures and parameters effectively
- Understand welding metallurgy and material behavior
- Inspect and evaluate weld quality using standard methods
- Identify and prevent welding defects
- Ensure compliance with international welding standards

### Target Audience

This program is designed for:

- Welding Engineers and Technicians
- Fabrication and Construction Professionals
- Mechanical and Maintenance Engineers
- Quality Control and Inspection Personnel
- Supervisors and Managers in welding operations
- Individuals seeking comprehensive welding knowledge

## Outline

### Day 1: Fundamentals of Welding and Processes

- Introduction to welding technology
- Overview of welding processes SMAW, GMAW, GTAW, FCAW, SAW
- Welding equipment and consumables
- Welding terminology and standards
- Safety practices and hazard control

### Day 2: Welding Techniques and Applications

- Arc welding techniques and parameters
- Gas welding and cutting processes
- Process selection based on materials and applications
- Joint design and preparation
- Welding position and techniques

### Day 3: Welding Materials and Metallurgy

- Properties of metals and alloys
- Welding metallurgy and heat-affected zone HAZ
- Preheating and post-weld heat treatment
- Material compatibility and weldability
- Residual stresses and distortion control

### Day 4: Welding Inspection and Quality Assurance

- Welding inspection methods visual, NDT
- Welding defects and discontinuities
- Quality standards AWS, ISO, ASME
- Weld testing and acceptance criteria
- Documentation and reporting

### Day 5: Advanced Welding Practices and Troubleshooting

- Welding procedures and specifications WPS, PQR, WPQ
- Troubleshooting welding issues
- Improving welding quality and productivity
- Automation and modern welding technologies
- Case studies and real-world applications

## Registration form on the Training Course: Comprehensive Welding

**Training Course code:** EN234643 **From:** 31 January - 4 February 2027 **Venue:** Sharm El-Sheikh (Egypt) - Sheraton Sharm Hotel **Training Course Fees:** 5100 € 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,  
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