



*Training Course:
Welding Technology*

*24 - 28 January 2027
Cairo (Egypt)*

Training Course: Welding Technology

Training Course code: EN6044 From: 24 - 28 January 2027 Venue: Cairo (Egypt) - Training Course Fees: 4410 € Euro

Introduction

Welding technology is a core discipline in fabrication, construction, and industrial manufacturing, enabling the permanent joining of metals and alloys. Proper understanding of welding processes, materials, and quality standards is essential to ensure structural integrity, safety, and durability of welded components.

This program, designed by Global Horizon Training Center, equips participants with the technical knowledge and practical skills required to apply welding techniques, understand welding metallurgy, and ensure quality and safety in welding operations.

Course Objectives

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

- Understand welding principles and major welding processes
- Identify welding equipment and consumables
- Select appropriate welding techniques based on materials and applications
- Interpret welding symbols and engineering drawings
- Apply welding procedures and parameters effectively
- Understand welding metallurgy and heat effects
- Perform inspection and quality control of welds
- Ensure compliance with safety standards and best practices

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 in welding operations
- Individuals seeking foundational welding knowledge

Outline

Day 1: Fundamentals of Welding Technology

- Introduction to welding and joining processes
- Types of welding methods SMAW, GMAW, GTAW, FCAW
- Welding equipment and consumables
- Welding terminology and standards
- Safety practices in welding

Day 2: Welding Processes and Techniques

- Arc welding processes and applications
- Gas welding and cutting
- Process selection based on materials
- Welding parameters and control
- Practical considerations

Day 3: Welding Materials and Metallurgy

- Properties of metals and alloys
- Heat-affected zone HAZ
- Welding metallurgy and microstructure
- Preheating and post-weld heat treatment
- Material compatibility

Day 4: Welding Inspection and Quality Control

- 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 WPS, PQR, WPQ
- Troubleshooting welding issues
- Improving weld quality and productivity
- Automation in welding
- Case studies and real-world applications

Registration form on the Training Course: Welding Technology

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

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Payment Method

- ☐ Please find enclosed a cheque made payable to Global Horizon
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