



*Training Course:
Welding Technology*

*31 January - 4 February 2027
Cairo (Egypt)*

Training Course: Welding Technology

Training Course code: EN234644 From: 31 January - 4 February 2027 Venue: Cairo (Egypt) - Training Course Fees: 4410
€ Euro

Introduction

Welding technology is a fundamental process in manufacturing, construction, and industrial fabrication, playing a critical role in joining materials safely and efficiently. A strong understanding of welding methods, materials, and quality standards is essential to ensure structural integrity, durability, and compliance with industry requirements.

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

Course Objectives

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

- Understand the principles and types of welding processes
- Identify welding equipment and materials used in different applications
- Apply appropriate welding techniques based on material and design requirements
- Interpret welding symbols and technical drawings
- Ensure weld quality through inspection and testing methods
- Identify common welding defects and their causes
- Apply safety practices and standards in welding operations
- Improve welding efficiency and performance

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 involved in welding operations
- Individuals seeking to develop welding skills

Outline

Day 1: Fundamentals of Welding Technology

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

Day 2: Welding Processes and Techniques

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

Day 3: Materials and Metallurgy in Welding

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

Day 4: Welding Inspection and Quality Control

- Welding inspection methods visual, NDT
- Welding defects and discontinuities
- Quality assurance and standards AWS, ISO
- Weld testing and evaluation
- Documentation and reporting

Day 5: Advanced Applications and Troubleshooting

- Welding procedures and specifications WPS/PQR
- Troubleshooting welding problems
- Improving weld quality and efficiency
- Automation and modern welding technologies
- 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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Person Responsible for Training and Development

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Payment Method

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