



*Training Course:
Comprehensive Welding*

*15 - 19 August 2027
Cairo (Egypt)*

Training Course: Comprehensive Welding

Training Course code: EN234643 From: 15 - 19 August 2027 Venue: Cairo (Egypt) - Training Course Fees: 4410 € 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

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

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Full Name (Mr / Ms / Dr / Eng):
Position:
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Payment Method

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