



Advanced Onsite Welding Techniques and Inspection

23 Nov - 04 Dec 2026
Abu Dhabi



Advanced Onsite Welding Techniques and Inspection

Ref.: 103600573_77208 **Date:** 23 Nov - 04 Dec 2026 **Location:** Abu Dhabi **Fees:** 13000 Euro

Course Overview

The course aims to enhance the skills and knowledge of welders and engineers through hands-on, practical experience in various welding techniques. It covers essential topics such as welding training programs, welder improvement courses, and onsite welding workshops. Participants will gain in-depth knowledge of advanced welding techniques, safety protocols, and the latest industry standards. By attending this course, participants will learn to execute welding procedures precisely, ensuring compliance with welding standards and codes. The course also offers specialized welding seminars catering to specific industry needs, making it a valuable resource for professionals seeking welding certification training and industrial welding education. The combination of practical training, expert instruction, and real-world applications ensures that participants leave with the skills necessary to excel in their field.

Target Audience

- Welding Engineers
- Maintenance Technicians
- Industrial Welders
- Production Supervisors
- Quality Control Inspectors
- Professionals seeking Welding Certification Training

Targeted Organizational Departments

- Maintenance and Repair Departments
- Quality Assurance and Control
- Production and Manufacturing Units
- Engineering and Design Departments
- Health, Safety, and Environmental HSE Departments

Targeted Industries

- Manufacturing
- Oil & Gas
- Construction
- Automotive
- Aerospace
- Shipbuilding
- Energy and Utilities

Course Offerings

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

- Develop and apply advanced welding techniques and safety measures
- Perform welding procedure specifications with high accuracy
- Improve welding quality control processes
- Execute welding certification training for professional development
- Utilize welding technology training for better productivity
- Implement welding standards and codes compliance in daily operations
- Master practical welding skills development through onsite workshops

Training Methodology

The course utilizes interactive training methods to ensure an engaging and effective learning experience. Participants will take part in hands-on practical workshops, case studies, and group work sessions designed to simulate real-world welding challenges. Specialized welding seminars will provide detailed instruction on topics such as welding stainless steel, aluminium, and advanced welding techniques. Regular feedback sessions will be conducted to assess progress and offer personalized guidance. The training also includes welding technology and welding quality control exercises to ensure that participants not only learn but also apply the knowledge gained in practical settings.

Course Toolbox

- Comprehensive framework covering welding procedures and techniques
- Checklists for welding defect prevention and repair
- Templates for welding procedure specification and development

Course Agenda

Day 1: Introduction to Metalwork

- **Topic 1:** Overview of Metalwork: Concepts and Principles
- **Topic 2:** Introduction to Welding Engineering Services
- **Topic 3:** Understanding Metal Properties and Their Applications
- **Topic 4:** Introduction to Welding Standards and Codes Compliance
- **Topic 5:** Practical Session: Hands-on Training in Metalwork
- **Topic 6:** Basics of Metal Cutting Techniques
- **Reflection & Review:** Day 1 Learnings and Q&A

Day 2: Metal Cutting and Shaping Techniques

- **Topic 1:** Metal Cutting Techniques: Tools and Methods
- **Topic 2:** Advanced Metal Shaping & Forming Techniques
- **Topic 3:** Welding Procedure Specification: Development and Implementation
- **Topic 4:** Selection and Application of Welding Consumables
- **Topic 5:** Practical Session: Metal Cutting and Shaping Techniques
- **Topic 6:** Practical Application: Metalwork in Welding Context
- **Reflection & Review:** Day 2 Learnings and Practical Feedback

Day 3: Introduction to Welding

- **Topic 1:** Fundamentals of Welding: Techniques and Safety
- **Topic 2:** Shielded Metal Arc Welding SMAW: Basics and Applications
- **Topic 3:** Electrode Types and Standards in Welding
- **Topic 4:** Welding Carbon Steels and Cast Irons: Best Practices
- **Topic 5:** Practical Session: Introduction to Welding Techniques
- **Topic 6:** Welding Safety: Best Practices and Protocols
- **Reflection & Review:** Review of Welding Fundamentals



Day 4: Advanced Welding Techniques

- **Topic 1:** Gas Metal Arc Welding GMAW: Parameters and Best Practices
- **Topic 2:** Gas Tungsten Arc Welding GTAW: Techniques and Safety
- **Topic 3:** Oxy-Gas Welding and Brazing: Processes and Applications
- **Topic 4:** Submerged Arc Welding SAW: Industrial Applications
- **Topic 5:** Practical Session: Advanced Welding Techniques
- **Topic 6:** Maintenance and Hardfacing Applications in Welding
- **Reflection & Review:** Advanced Techniques Summary and Q&A

Day 5: Welding Applications

- **Topic 1:** Pipe Welding: Methods and Challenges
- **Topic 2:** Welding Stainless Steels: Techniques and Considerations
- **Topic 3:** Welding Aluminum and Its Alloys: Specific Techniques
- **Topic 4:** Welding Engineering Services: Real-World Applications
- **Topic 5:** All-Day Practical Session: Welding Applications
- **Topic 6:** Quality Control During Welding Projects
- **Reflection & Review:** Daily Practice and Key Takeaways

Day 6: Advanced Welding Applications

- **Topic 1:** Pre-Heating and Post-Weld Heat Treatments: Procedures
- **Topic 2:** Welding Positions and Parameters: Optimizing Quality
- **Topic 3:** Onsite Welder Improvement Training: Practical Techniques
- **Topic 4:** Welding Defects Prevention and Repair: Techniques
- **Topic 5:** All-Day Practical Session: Advanced Welding Applications
- **Topic 6:** Maintenance of Welding Equipment and Power Sources
- **Reflection & Review:** Key Learnings from Advanced Applications

Day 7: Welding Inspection and Quality Control 1

- **Topic 1:** Welding Inspection: Techniques and Standards
- **Topic 2:** Quality Control in Welding: Best Practices
- **Topic 3:** Welding Defects: Identification and Prevention
- **Topic 4:** Introduction to Welding Procedure Qualification Records PQR
- **Topic 5:** Practical Session: Welding Inspection and Quality Control
- **Topic 6:** Welding Engineering Services: Ensuring Compliance
- **Reflection & Review:** Inspection and Quality Control Summary



Day 8: Welding Inspection and Quality Control 2

- **Topic 1:** Advanced Welding Inspection Techniques
- **Topic 2:** Certification Preparation for Welding Inspectors
- **Topic 3:** Welding Engineering Services: Testing Procedures
- **Topic 4:** Determination of Weld Groove Type and Parameters
- **Topic 5:** Practical Session: Advanced Quality Control Techniques
- **Topic 6:** Welding Standards and Codes Compliance in Practice
- **Reflection & Review:** Advanced Inspection and Quality Feedback

Day 9: Project: Practical Welding Applications

- **Topic 1:** Project Planning: Welding Applications
- **Topic 2:** Execution of Welding Techniques: Onsite Applications
- **Topic 3:** Quality Control during Welding Projects
- **Topic 4:** Advanced Welding Techniques in Project Settings
- **Topic 5:** All-Day Practical Session: Welding Project Implementation
- **Topic 6:** Evaluation of Welding Project Outcomes
- **Reflection & Review:** Project Execution and Feedback

Day 10: Final Assessment and Closing

- **Topic 1:** Review of Welding Techniques and Applications
- **Topic 2:** Final Theoretical Evaluation and Feedback
- **Topic 3:** Welding Certification Preparation
- **Topic 4:** Review of Welding Standards and Codes Compliance
- **Topic 5:** Course Conclusion: Certification and Next Steps
- **Reflection & Review:** Final Reflections and Course Wrap-Up



How This Course is Different from Other Welding Training Courses

This welding course is unique because it takes a hands-on approach to welding training. Instead of just focusing on theory, the course includes practical workshops and onsite sessions, allowing participants to apply what they've learned right away. The course also covers advanced welding techniques, quality control, and specialized seminars tailored to industry needs. Additionally, participants receive personalized feedback and practical assessments, making it an immersive learning experience that prepares them for success in the welding industry.



Training Course Categories

Agile PM and Project Management Training Courses

Certified Courses By International Bodies

Communication and Public Relations Training Courses

Data Analytics Training and Data Science Courses

Environment & Sustainability Training Courses

Finance and Accounting Training Courses

Governance, Risk and Compliance Training Courses

Human Resources Training and Development Courses

IT Security Training & IT Training Courses

Leadership and Management Training Courses

Legal Training, Procurement and Contracting Courses

Maintenance Training and Engineering Training Courses

Marketing, Customer Relations, and Sales Courses

Occupational Health, Safety and Security Training Courses

Personal & Self-Development Training Courses

Quality and Operations Management Training Courses

Secretarial and Administration Training Courses



Training Cities

Abu Dhabi UAE	Accra Ghana	Al Jubail Saudi Arabia
Amman Jordan	Amsterdam Netherlands	Athens Greece
Baku Azerbaijan	Bangkok Thailand	Barcelona Spain
Berlin Germany	Cairo Egypt	Cape town South Africa
Casablanca Morocco	Chicago USA	Doha Qatar
Dubai UAE	Frankfurt Germany	Geneva Switzerland
Istanbul Turkey	Jakarta Indonesia	Johannesburg South Africa
Kuala Lumpur Malaysia	Kuwait Kuwait	Langkawi Malaysia
Lisbon Portugal	London UK	Madrid Spain
Manama Bahrain	Marbella Spain	Milan Italy
Montreux Switzerland	Munich Germany	Muscat Oman
Nairobi Kenya	New York USA	Paris France
Phuket Thailand	Porto Portugal	Prague Czech Republic

Training Cities

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South Korea

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