

Welding Techniques for Low-Pressure and High-Pressure Electrical Cables

Barcelona (Spain)

15 - 19 June 2026

UK Traininig

PARTNER



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Code: GC28 From: 15 - 19 June 2026 City: Barcelona (Spain) Fees: 5100 Pound

Introduction

Welcome to the Advanced Welding Techniques for Low-Pressure and High-Pressure Electrical Cables course. This specialized program has been meticulously designed to equip you with both basic welding techniques and advanced welding techniques necessary for handling electric cables of varying complexities.

Whether you're working with low-pressure or high-pressure electrical cables, this course will provide you with comprehensive insights into types of welding techniques used in modern cable assembly. By combining theoretical knowledge with practical exercises, you'll develop proficiency in producing high-quality welds that adhere to industry standards, ensuring safety, reliability, and efficiency in every project.

Course Objectives

- Understand Key Welding Techniques: Gain foundational knowledge of welding techniques tailored for low-pressure and high-pressure electrical cables, ensuring precision and durability in your work.
- Master Various Types of Welding Techniques: From butt welding and lap welding to TIG welding, you'll learn both basic and advanced welding techniques to handle diverse cable configurations.
- Learn About Welding Tools and Equipment: Become proficient in selecting, setting up, and maintaining modern welding equipment, including wire welding techniques and specialized tools for electric cables.
- Prioritize Safety in Welding: Understand the safety protocols, personal protective equipment PPE, and best practices required to maintain a safe welding environment, especially when dealing with high-pressure electrical cables.
- Troubleshoot Welding Defects: Identify common issues in welding types of electrical cables, and develop problem-solving skills to fix defects efficiently.
- Prepare for Industry Certification: Equip yourself with the technical knowledge and practical skills needed to pursue certifications in advanced welding techniques for electrical applications.

Course Outlines

Day 1: Introduction to Low-Pressure and High-Pressure Electrical Cables

- Overview of types of electrical cables, including single-core and multi-core cables
- Understanding the properties of different cable materials and their implications for welding
- Applications of welding in electrical cable assembly
- The role of welding in ensuring efficiency and reliability in electrical systems

Day 2: Welding Equipment and Tools

- Introduction to modern welding equipment, including TIG welding machines and FCAW systems
- Selecting, setting up, and maintaining welding machines for electric cables



- Specialized tools: wire cutters, clamps, and wire welding techniques
- Safety considerations, PPE requirements, and workspace setup

Day 3: Welding Techniques for Low-Pressure Cables

- Basic welding techniques for low-pressure cable applications
- Joint configurations: butt welding, lap welding, and fillet welding
- Setting optimal welding parameters to maintain cable integrity
- Quality control measures and inspection standards for low-pressure welds

Day 4: Welding Techniques for High-Pressure Cables

- Advanced welding techniques for high-pressure cable applications
- Mastering TIG welding for high-pressure environments
- Adjusting welding parameters to enhance joint durability and performance
- Testing and validation processes to meet stringent safety and performance standards

Day 5: Troubleshooting and Practical Exercises

- Identifying common welding issues in electric cables
- Troubleshooting techniques for resolving welding defects
- Hands-on welding sessions with realistic cable welding scenarios
- Recap of key course concepts, Q&A, and preparation for certification

Why Attend This Course: Wins & Losses!

- **Master Advanced Welding Techniques:** Learn the most effective welding techniques for handling both low-pressure and high-pressure electrical cables, including wire welding techniques and TIG welding.
- **Industry-Ready Certification:** Gain practical experience that prepares you for professional certifications in advanced welding techniques, boosting your career opportunities.
- **Comprehensive Skill Development:** From basic welding techniques for beginners to complex configurations, you'll develop a full spectrum of welding skills.
- **Enhanced Safety and Efficiency:** Learn best practices for ensuring safety and achieving high-quality, reliable welds in every project.

Conclusion

By enrolling in this Advanced Welding Techniques course, you will acquire the skills and knowledge needed to excel in welding low-pressure and high-pressure electrical cables. The course combines theory with hands-on practice, focusing on best welding techniques and safety protocols to ensure high-quality results in every project.

Whether you're new to welding or seeking to enhance your expertise in advanced welding techniques, this course will equip you with the tools and confidence to meet industry standards and excel in your career. You'll leave with a deep understanding of what are the welding techniques best suited for various cable types, and how to apply them for maximum efficiency and safety.



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