

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

Rome (Italy)

2 - 6 December 2024

UK Training

PARTNER



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

Code: GC28 From: 2 - 6 December 2024 City: Rome (Italy) Fees: 4700 Pound

Introduction

Welcome to the Advanced Welding Techniques course for low-pressure and high-pressure electrical cables. This comprehensive program has been designed to provide you with the most modern and advanced knowledge and skills required to weld these types of cables. Through a combination of theoretical instruction and practical hands-on exercises, you will gain a deep understanding of the welding processes involved, ensuring your ability to perform high-quality welds that meet industry standards and specifications.

Objectives

- Understand the fundamentals of welding low-pressure and high-pressure electrical cables.
- Familiarize yourself with the latest welding equipment and tools specific to cable welding.
- Develop proficiency in various welding techniques and methods applicable to different cable types.
- Acquire knowledge of safety protocols and precautions associated with cable welding.
- Learn how to troubleshoot common welding issues and defects in electrical cables.
- Gain practical experience through hands-on exercises and real-world simulations.
- Prepare for industry certifications and qualifications related to cable welding.

Course Outline

Day 1

Introduction to Low-Pressure and High-Pressure Electrical Cables

- Overview of low-pressure and high-pressure electrical cables
- Types of cables and their applications
- Cable materials and properties
- Importance of welding in cable assembly

Day 2

Welding Equipment and Tools

- Introduction to modern welding equipment for cable welding
- Selection and setup of welding machines and accessories
- Overview of specialized tools used in cable welding
- Safety considerations and personal protective equipment PPE



Day 3

Welding Techniques for Low-Pressure Cables

- Welding methods for low-pressure electrical cables
- Butt welding, lap welding, and other joint configurations
- Welding parameters and their impact on cable integrity
- Quality control and inspection of low-pressure cable welds

Day 4

Welding Techniques for High-Pressure Cables

- Welding methods for high-pressure electrical cables
- TIG Tungsten Inert Gas welding techniques for high-pressure cables
- Welding parameters and considerations for high-pressure cable joints
- Testing and validation of high-pressure cable welds

Day 5

Troubleshooting and Practical Exercises

- Common welding issues and defects in electrical cables
- Troubleshooting techniques for identifying and resolving welding problems
- Hands-on exercises simulating real-world cable welding scenarios
- Recap of course highlights and Q&A session
- Course evaluation and certification



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