

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

*Lyon (France)*

*17 - 21 February 2025*

UK Training

# PARTNER



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

Code: GC28 From: 17 - 21 February 2025 City: Lyon (France) Fees: 4900 Pound

## Introduction

Welcome to the Advanced Welding Techniques for Low-Pressure and High-Pressure Electrical Cables course. This specialized program has been meticulously crafted to equip you with cutting-edge welding techniques and skills required for electrical cable welding. With a balance of theoretical insights and hands-on exercises, you'll gain a solid understanding of both low-pressure and high-pressure cable welding processes. By the end of this course, you'll have the expertise needed to produce high-quality welds that comply with industry standards and specifications, ensuring safety, reliability, and efficiency in every weld.

## Course Objectives

- **Understand Key Welding Techniques:** Gain a foundational understanding of welding techniques specific to low-pressure and high-pressure electrical cables, ensuring quality and precision in your work.
- **Familiarize with Welding Tools and Equipment:** Learn to select, set up, and maintain the latest welding equipment for cable applications, from TIG welding machines to specialized tools.
- **Develop Proficiency in Various Welding Methods:** Acquire skills in butt welding, lap welding, and other configurations, mastering advanced and basic techniques to handle diverse electrical cable types.
- **Prioritize Safety Protocols:** Study safety procedures and PPE required in cable welding to create a safe, efficient work environment.
- **Troubleshoot Welding Issues:** Learn to identify, troubleshoot, and solve common defects in electric cable welds, enhancing your problem-solving skills for real-world scenarios.
- **Prepare for Industry Certification:** Equip yourself with the practical knowledge and confidence to pursue industry certifications and qualifications in advanced welding for electrical cables.

## Course Outlines

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

- Overview of low-pressure and high-pressure electrical cables
- Types of cables, including single-core, multi-core, and their applications
- Properties of different cable materials and their impact on welding
- Importance and applications of welding in cable assembly

### Day 2: Welding Equipment and Tools

- Introduction to modern welding equipment for cable welding, including TIG and other machines
- Selection, setup, and maintenance of welding machines and accessories
- Overview of specialized tools, such as wire cutters and flux-cored arc welding FCAW systems
- Safety considerations and required personal protective equipment PPE



### Day 3: Welding Techniques for Low-Pressure Cables

- Effective welding techniques for low-pressure cables
- Exploring joint configurations: butt welding, lap welding, and fillet welding
- Importance of welding parameters in maintaining cable integrity
- Quality control and inspection standards for low-pressure cable welds

### Day 4: Welding Techniques for High-Pressure Cables

- Advanced techniques for welding high-pressure cables
- Mastering TIG Tungsten Inert Gas welding for high-pressure applications
- Optimal welding parameters for high-pressure joints and enhanced durability
- Testing and validation processes for high-pressure cable welds to meet safety standards

### Day 5: Troubleshooting and Practical Exercises

- Identifying common welding issues and defects in electrical cables
- Effective troubleshooting techniques to resolve welding problems
- Hands-on practice in realistic cable welding scenarios, with simulations for common industry tasks
- Recap of course highlights, Q&A session, and certification

### Conclusion

By participating in this course, you will acquire advanced skills in welding techniques applicable to electric cables of various types and specifications, from low-pressure to high-pressure settings. With a focus on safety, quality control, and hands-on practice, this course provides you with the essential knowledge and experience needed to succeed in the welding industry.



# Blackbird Training Cities

## Europe



Malaga (Spain)



Sarajevo (Bosnia and Herzegovina)



Oporto (Portugal)



Glasgow (Scotland)



Edinburgh (UK)



Oslo (Norway)



Annecy (France)



Bordeaux (France)



Copenhagen (Denmark)



Birmingham (UK)



Lyon (France)



Moscow (Russia)



Stockholm (Sweden)  
(Netherlands)



Podgorica (Montenegro)



Batumi (Georgia)



London (UK)



Istanbul (Turkey)



Amsterdam



Düsseldorf (Germany)



Paris (France)



Barcelona (Spain)



Munich (Germany)



Geneva (Switzerland)



Prague (Czech)



Vienna (Austria)



Rome (Italy)



Brussels (Belgium)



Madrid (Spain)



Berlin (Germany)



Lisbon (Portugal)



Zurich (Switzerland)



Manchester (UK)



Milan (Italy)



# Blackbird Training Cities

## USA & Canada



Los Angeles (USA)



Orlando, Florida (USA)



Online



Phoenix, Arizona (USA)



Houston, Texas (USA)



Boston, MA (USA)



Washington (USA)



Miami, Florida (USA)



New York City (USA)



Seattle, Washington (USA)



Washington DC (USA)



In House



Jersey, New Jersey (USA)



Toronto (Canada)

## Africa



Baku (Azerbaijan)  
(Thailand)



Maldives (Maldives)



Doha (Qatar)



Manila (Philippines)



Bali (Indonesia)



Bangkok



Beijing (China)



Singapore (Singapore)



Sydney (Australia)



Tokyo (Japan)



Jeddah (KSA)



Riyadh (KSA)



Dubai (UAE)



Kuala Lumpur (Malaysia)



Kuwait City (Kuwait)



Pulau Ujong (Singapore)



Jakarta (Indonesia)



Amman (Jordan)



Beirut (Lebanon)



## Blackbird Training Cities

### Asia



Kigali (Rwanda)



Cape Town (South Africa)



Accra (Ghana)



Lagos (Nigeria)



Marrakesh (Morocco)



Nairobi (Kenya)



Zanzibar (Tanzania)



Tangier (Morocco)



Cairo (Egypt)



Sharm El-Sheikh (Egypt)



Casablanca (Morocco)



Tunis (Tunisia)



## Blackbird Training Clients



UK Training  
**PARTNER**



## Blackbird Training Categories

### Management & Admin

Professional Skills  
Finance, Accounting, Budgeting  
Media & Public Relations  
Project Management  
Human Resources  
Audit & Quality Assurance  
Marketing, Sales, Customer Service  
Secretary & Admin  
Supply Chain & Logistics  
Management & Leadership  
Agile and Elevation

### Technical Courses

Hospital Management  
Public Sector  
Special Workshops  
Oil & Gas Engineering  
Telecom Engineering  
IT & IT Engineering  
Health & Safety  
Law and Contract Management  
Customs & Safety  
Aviation  
C-Suite Training



**BLACKBIRD**  
FOR TRAINING



International House 185 Tower Bridge  
Road London SE1 2UF United Kingdom



+44 7401 1773 35  
+44 7480 775526



Sales@blackbird-training.com



www.blackbird-training.com

UK Training

**PARTNER**

