

## 6-G Welding Certification

*Düsseldorf (Germany)*

*25 - 29 August 2025*

UK Traininig

# PARTNER



## 6-G Welding Certification

Code: OG28 From: 25 - 29 August 2025 City: Düsseldorf (Germany) Fees: 4900 Pound

### Introduction

The 6-G Welding Certification course is designed to provide intermediate-level mechanical professionals with a strong theoretical foundation in welding processes, safety standards, weld joint preparation, defect identification, and certification requirements, focusing specifically on the complex 6-G position. This theoretical course prepares participants for practical exams by covering all essential aspects of 6-G welding through structured modules, discussions, and interactive activities.

### Course Objectives

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

- Understand the fundamentals and challenges of 6-G welding positions
- Identify different welding techniques and joint configurations used in 6-G
- Recognize common weld defects and understand inspection methods
- Apply safety standards and welding codes related to certification
- Prepare for the 6-G welding certification e.g., ASME Section IX or AWS standards

### Course Outlines

#### Day 1: Introduction to Welding and 6-G Concepts

- Overview of welding processes SMAW, GTAW, GMAW, FCAW
- Definition and importance of the 6-G welding position inclined pipe joint
- Joint types and bevel preparations for pipe welding
- Tools and equipment used in pipe welding
- Welding codes and standards overview ASME, AWS, ISO

#### Day 2: Materials, Electrodes, and Welding Techniques

- Types of materials used in pipe welding carbon steel, stainless steel, etc.
- Electrode selection and classification
- Welding symbols and reading blueprints
- Heat-affected zones and metallurgy basics
- Preheating, interpass, and post-weld heat treatment PWHT

#### Day 3: Weld Defects, Quality Control, and Inspection Methods

- Common weld defects in 6-G positions cracks, porosity, undercut, etc.
- Causes and prevention of welding defects
- Non-destructive testing NDT methods: VT, RT, UT, PT, MT
- Understanding weld acceptance criteria



- Documentation and weld inspection reports

#### Day 4: Welding Safety, Procedures, and Certification Preparation

- Safety standards and PPE in welding environments
- Welding Procedure Specifications WPS and Procedure Qualification Records PQR
- Welder Performance Qualification WPQ process
- Review of certification requirements and assessment procedures
- Activity: Welding Blueprint Interpretation Challenge Participants work in small groups to interpret and analyze a complex welding drawing

#### Day 5: Review, Troubleshooting, and Q&A

- Troubleshooting weld issues specific to the 6-G position
- Review of key topics from Days 1-4
- Tips for passing the 6-G welding certification exam
- Open Q&A session with industry expert
- Course wrap-up and knowledge check short quiz or discussion

#### Why Attend this Course: Wins & Losses!

- Gain a complete understanding of the 6-G welding position or continue struggling with the most technically challenging weld configuration in industry
- Learn how to identify and prevent common weld defects or risk costly rework, failures, and rejected certifications
- Understand safety standards and certification codes or face compliance issues and safety violations
- Prepare with confidence for ASME or AWS certification exams or remain unqualified for key industry roles
- Enhance your credibility as a welder or inspector or fall behind in a competitive job market

#### Conclusion

This course provides a thorough theoretical framework for professionals aiming to achieve 6-G welding certification. From foundational knowledge and inspection methods to safety practices and exam preparation, participants will leave fully equipped to approach certification with confidence and clarity.

Whether working in oil and gas, manufacturing, or construction, the course offers valuable insights and skills for advancing in welding-related careers.





# 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)



Podgorica (Montenegro)



Batumi (Georgia)



London (UK)



Istanbul (Turkey)



Amsterdam



Düsseldorf (Germany)  
(Switzerland)



Paris (France)



Athens (Greece)



Barcelona (Spain)



Munich (Germany)



Geneva



Prague (Czech)



Vienna (Austria)



Rome (Italy)



Brussels



Madrid (Spain)



Berlin (Germany)



Lisbon (Portugal)



Zurich



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)

## ASIA



Baku (Azerbaijan)  
(Thailand)



Maldives (Maldives)



Doha (Qatar)



Manila (Philippines)



Bali (Indonesia)



Bangkok



Beijing (China)



Singapore (Singapore)



Sydney



Tokyo (Japan)



Jeddah (KSA)



Riyadh (KSA)



Melbourne (Australia)  
Korea



Phuket (Thailand)



Dubai (UAE)



Kuala Lumpur (Malaysia)



Kuwait City (Kuwait)



Seoul (South)



Pulau Ujong (Singapore)



Irbid (Jordan)



Jakarta (Indonesia)



Amman (Jordan)



Beirut





## Blackbird Training Cities

### AFRICA



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



MANNAI Trading  
Company WLL,  
Qatar



Alumina Corporation  
Guinea



Booking.com  
Netherlands



Oxfam GB International  
Organization,  
Yemen



Capital Markets  
Authority,  
Kuwait



Waltersmith Petroman Oil Limited  
Nigeria



Qatar National Bank  
(QNB),  
Qatar



Qatar Foundation,  
Qatar



AFRICAN UNION ADVISORY  
BOARD ON CORRUPTION,  
Tanzania



KFAS  
Kuwait



Reserve Bank of  
Malawi,  
Malawi



Central Bank of Nigeria  
Nigeria



Ministry of Interior  
Kingdom of Saudi Arabia  
KSA



Mabruk Oil Company  
Libya



Saudi Electricity  
Company,  
KSA



BADAN PENGELOLA  
KEUANGAN Haji,  
Indonesia



NATO  
Italy



ENI CORPORATE  
UNIVERSITY,  
Italy



Gulf Bank  
Kuwait



General Organization for  
Social Insurance  
KSA



Defence Space Administration  
Nigeria



National Industries  
Group (Holding),  
Kuwait



Hamad Medical  
Corporation,  
Qatar



USAID  
Pakistan



STC Solutions,  
KSA



North Oil company,



EKO Electricity



Oman Broadband



UNITED NATIONS  
UN.



Authority for

UK Training  
**PARTNER**



## Blackbird Training Categories

### Management & Admin

Entertainment & Leisure  
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

Artificial Intelligence (AI)  
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



 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

