

## Pipelines & Piping Inspection

*Cairo (Egypt)*

*12 - 16 July 2026*

UK Traininig

# PARTNER



## Pipelines & Piping Inspection

Code: OG28 From: 12 - 16 July 2026 City: Cairo (Egypt) Fees: 4000 Pound

### Introduction

Pipelines and piping systems are the lifelines of industries, requiring precise design, meticulous inspection, and proactive maintenance to ensure pipeline integrity and safety. This comprehensive course dives into the essential aspects of pipeline inspection, operation, and maintenance. Participants will gain the knowledge and practical skills needed to evaluate, maintain, and enhance the integrity of pipelines and piping systems while adhering to industry standards like ASME and API.

The training covers the latest pipeline inspection techniques, corrosion protection methods, vibration analysis, and much more, equipping participants with cutting-edge solutions for real-world challenges in pipeline maintenance and reliability.

### Course Objectives

- Develop an in-depth understanding of ASME B31 rules for design, construction, inspection, and testing.
- Master pipeline inspection techniques and their application to ensure pipeline safety and performance.
- Gain knowledge of pipe materials, fabrication processes, and their influence on mechanical properties for pipeline integrity.
- Learn best practices for pipeline layout and support to enhance reliability and reduce risks.
- Understand and address corrosion mechanisms, prevention strategies, and repair solutions.
- Be introduced to advanced methodologies and research in pipeline maintenance.

### Course Outlines

#### Day 1: Introduction to Pipelines and Piping Systems

- Overview of ASME & API Codes and Standards.
- Fundamentals of Maintenance and Pipeline Integrity.
- Understanding Pipe Dimensions and Schedules.
- System Design Pressure and Sizing Formulas.
- Applications of Pipeline and Piping Design.

#### Day 2: Leak Detection and Repair Techniques

- Online Pipeline Leak Detection methods and periodic inspections.
- Repair techniques: patches, welds, clamps, and flanges.
- Pipe and pipeline welding practices, including heat treatment.

#### Day 3: Inspection, Testing, and Pipeline Layout



- Hydrostatic and pressure testing methods.
- Introduction to PIGGING Techniques: Types of Pigs and monitoring internal corrosion.
- Pipeline layout and load considerations.
- Review of pipe supports and lessons learned from poor practices.

#### Day 4: Corrosion Protection Systems

- Fundamentals of Cathodic and Anodic Protection Systems.
- Impressed current systems and their role in pipeline safety.

#### Day 5: Vibration in Service and Pressure Transients

- Addressing mechanical and hydraulic-induced vibrations.
- Techniques to measure, analyze, and resolve pipeline vibrations.
- Identifying and mitigating liquid hammer and pulsation risks.

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

- Master pipeline inspection training techniques to boost operational safety and reliability.
- Gain insights into pipeline maintenance strategies to prevent costly downtimes.
- Stay ahead with knowledge of the latest industry standards and practices.
- Learn practical methods for resolving common pipeline challenges like leaks, corrosion, and vibrations.
- Enhance your skills with real-world applications, ensuring seamless pipeline operations and maintenance.

#### Conclusion

This course is your gateway to mastering the intricacies of pipeline inspection, maintenance, and integrity management. By understanding pipeline safety, employing advanced inspection techniques, and addressing common challenges with confidence, you can ensure your pipelines and piping systems operate at their peak.

Don't miss this chance to advance your career and contribute to safer, more efficient pipelines. Enroll now to become a leader in pipeline operations and maintenance!





# 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)



Salzburg (Austria)



London (UK)



Istanbul (Turkey)



Amsterdam



Düsseldorf (Germany)



Paris (France)



Athens (Greece)



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)

## 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,  
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  
Electricity Regulation, Oman

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](mailto:Sales@blackbird-training.com)



[www.blackbird-training.com](http://www.blackbird-training.com)

