

Maintenance Troubleshooting and Problem Solving

Barcelona (Spain)

15 - 19 February 2027

UK Training

PARTNER



Maintenance Troubleshooting and Problem Solving

Code: OG32 From: 15 - 19 February 2027 City: Barcelona (Spain) Fees: 5900 Pound

Introduction

This practical course focuses on developing systematic troubleshooting and problem-solving skills for maintenance personnel. Participants will learn how to identify equipment failures, analyze symptoms, determine root causes, apply diagnostic techniques, and develop effective corrective and preventive actions. The course emphasizes practical maintenance situations, equipment failures, case studies, and structured problem-solving approaches.

Course Objectives

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

- Apply systematic troubleshooting methodologies to maintenance problems.
- Identify equipment failure symptoms and determine likely causes.
- Use diagnostic techniques and maintenance data to investigate failures.
- Apply Root Cause Analysis RCA and structured problem-solving tools.
- Troubleshoot common mechanical, electrical, hydraulic, and pneumatic problems.
- Develop effective corrective and preventive actions.
- Reduce recurring failures, downtime, and maintenance costs.
- Improve equipment reliability and maintenance performance.

Course Outline

Day 1: Maintenance Troubleshooting Fundamentals

1. Principles and objectives of maintenance troubleshooting
2. Understanding equipment failures and failure symptoms
3. Systematic troubleshooting methodology
4. Problem identification and information gathering
5. Troubleshooting decision-making and prioritization

Day 2: Equipment Diagnostics s Failure Identification

1. Equipment inspection and condition assessment
2. Interpreting operating and maintenance data
3. Diagnostic techniques and maintenance tools
4. Identifying abnormal operating conditions
5. Failure modes and effects in maintenance systems



Day 3: Root Cause Analysis s Problem Solving

1. Root Cause Analysis RCA methodology
2. 5 Whys and Fishbone Analysis
3. Fault Tree Analysis and failure investigation
4. Identifying immediate, underlying, and root causes
5. Developing and evaluating corrective actions

Day 4: Troubleshooting Common Maintenance Problems

1. Pumps, compressors, and rotating equipment
2. Motors and electrical equipment
3. Hydraulic and pneumatic systems
4. Valves, piping, and process equipment
5. Practical troubleshooting case studies

Day 5: Advanced Problem Solving s Reliability Improvement

1. Recurring failures and equipment "bad actors"
2. Corrective vs. preventive maintenance actions
3. Failure elimination and reliability improvement
4. Troubleshooting documentation and reporting
5. Practical problem-solving exercises and case studies

Why Attend This Course? - Wins s Losses!

Wins:

- Faster identification and resolution of equipment problems
- Stronger root-cause analysis capabilities
- Reduced equipment downtime and recurring failures
- Improved maintenance decision-making
- Better equipment reliability and performance

Losses Avoided:

- Repeated equipment failures
- Unnecessary component replacement
- Extended troubleshooting time
- Unplanned downtime
- Increased maintenance costs

Conclusion

This course provides a practical and structured approach to **maintenance troubleshooting and problem solving**, enabling participants to move beyond treating symptoms and focus on identifying and eliminating the root causes of equipment failures.





This customized version is a much better match for a client requesting 'Maintenance Troubleshooting and Problem Solving' than the original Engineering Plant Maintenance C Operations course, while still retaining the Blackbird course structure and technical scop.

Head Office: +44 7480 775 526
Email: Sales@blackbird-training.com
Website: www.blackbird-training.com

UK Training

PARTNER



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)
Sustainability, ESG & Corporate Responsibility
Advanced 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

