

Monitoring & Evaluation of Roads and Bridges

Kuala Lumpur (Malaysia)

29 September - 3 October 2025

UK Training

PARTNER



Monitoring & Evaluation of Roads and Bridges

Code: NC28 From: 29 September - 3 October 2025 City: Kuala Lumpur (Malaysia) Fees: 4900 Pound

Introduction

Civil engineering plays a crucial role in the development, maintenance, and sustainability of infrastructure projects, particularly in road monitoring and bridge evaluation. This course is designed to equip participants with essential skills and knowledge in monitoring and evaluation M&E to ensure that civil engineering projects are executed efficiently and sustainably. By utilizing modern technology such as digital bridge solutions, participants will learn how to analyze data, assess performance, and ensure compliance with engineering standards.

Course Objectives

- Understand the fundamental concepts of monitoring and evaluation in civil engineering projects, particularly in roads and bridges.
- Master modern monitoring and evaluation tools and techniques, including digital bridge technology and condition monitoring.
- Enhance skills in data collection, analysis, and interpretation for civil engineering infrastructure.
- Develop comprehensive evaluation plans that meet civil engineering requirements and compliance standards.
- Apply various evaluation methods, including developmental evaluation and training evaluation, to improve project success.

Course Outlines

Day 1: Foundations of Monitoring and Evaluation

- What is civil engineering? Definition and the role of civil engineering in infrastructure development.
- Why is civil engineering important? The impact of civil engineering on sustainable development and infrastructure quality.
- Types of civil engineering and their applications in road and bridge projects.
- Introduction to the basic concepts of monitoring and evaluation in civil engineering.
- Case studies demonstrating successful road monitoring and bridge evaluation.

Day 2: Planning for Monitoring and Evaluation

- Developing comprehensive evaluation plans that align with civil engineering requirements.
- Setting SMART objectives for monitoring infrastructure performance.
- Identifying and using Key Performance Indicators KPIs in civil engineering projects.
- Risk assessment and compliance monitoring in evaluation planning.
- The role of digital bridge solutions in enhancing evaluation accuracy and efficiency.

Day 3: Data Collection and Analysis



- Overview of quantitative and qualitative data collection methods in road monitoring and bridge evaluation.
- Conducting field visits and surveys for infrastructure assessment.
- Utilizing modern technology such as digital bridge solutions for accurate data collection.
- Ensuring data validation and quality assurance in monitoring processes.
- Practical exercise: Simulating a data collection process for a civil engineering project.

Day 4: Data Analysis and Interpretation

- Introduction to data analysis tools and software commonly used in civil engineering training.
- Performing basic statistical analysis for infrastructure performance evaluation.
- Trend analysis and data visualization to identify patterns in road and bridge conditions.
- Interpreting evaluation results accurately to support engineering decision-making.
- Group exercise: Analyzing real-world civil engineering project data to apply learned concepts.

Day 5: Reporting and Using M&E Findings

- Crafting effective reports to communicate monitoring and evaluation findings to stakeholders.
- Feedback mechanisms for continuous improvement of civil engineering projects.
- Integrating evaluation results into strategic decision-making and future development plans.
- Final case study: Participants will evaluate a full roads and bridges project using the methods and tools learned in the course.
- Workshop evaluation and discussions on best practices in training evaluation and civil engineering training.

Why Attend this Course? Wins & Losses!

- Gain professional expertise in monitoring and evaluation of civil engineering projects.
- Improve career opportunities in infrastructure development and civil engineering firms.
- Learn modern digital technologies, including digital bridge solutions and statistical data analysis.
- Enhance skills in project evaluation and decision-making to ensure quality and sustainability.

Conclusion

This Monitoring and Evaluation of Roads and Bridges course provides a comprehensive understanding of civil engineering practices, from data collection and analysis to project evaluation and reporting. By incorporating modern technology such as digital bridge solutions and proven M&E methodologies, participants will be fully prepared to take on key roles in ensuring the success and sustainability of infrastructure projects.

Mastering the basic concepts of civil engineering along with monitoring and evaluation techniques will allow professionals to make a significant impact in the field, ensuring high-quality results in future projects.



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)
(Kuwait)



Phuket (Thailand)



Shanghai (China)



Dubai (UAE)



Kuala Lumpur (Malaysia)



Kuwait City



Seoul (South Korea)



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



المؤسسة العامة للتأمينات الاجتماعية
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.



هيئة تنظيم الكهرباء - عمان
AUTHORITY FOR ELECTRICITY REGULATION, OMAN
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

