

Monitoring & Evaluation of Roads and Bridges

7 – 11 December 2026
Paris (France)

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Ref: 3254187_302756 **Date:** 7 – 11 December 2026 **Location:** Paris (France) **Fees:** 5900 GBP

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.

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A graphic of a chessboard with several chess pieces. A gold king piece is prominent in the foreground, with a silver pawn and a gold pawn behind it. The board is white and grey, with concentric circles in the background.

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.

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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.

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