Construction Project Monitoring and Evaluation Training Course

Professional Development Training Course Outline

Category	Construction Institute	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

The Construction Project Monitoring and Evaluation Training Course is designed to equip professionals with advanced skills in project performance tracking, data-driven decision-making, quality assurance, risk management, and sustainable construction delivery. The course focuses on modern Construction Project Management, Digital Monitoring Systems, Key Performance Indicators (KPIs), Project Controls, Cost Optimization, Schedule Management, and Evidence-Based Evaluation approaches that improve project outcomes. Participants will gain practical knowledge of how to establish effective monitoring frameworks, measure project progress, identify performance gaps, and implement corrective actions throughout the construction lifecycle.

With increasing demand for smart construction, sustainable infrastructure, ESG compliance, BIM-enabled project monitoring, digital transformation, and outcome-based project evaluation, organizations require professionals who can effectively monitor resources, timelines, budgets, safety standards, and quality benchmarks. This training course integrates global best practices, real-world construction challenges, and practical case studies to strengthen participants' ability to deliver successful projects through strategic monitoring, impact evaluation, continuous improvement, and performance excellence.

Programme Curriculum

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Course Objectives

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

1. Develop effective Construction Project Monitoring and Evaluation frameworks aligned with international standards.
2. Apply Key Performance Indicators (KPIs) for measuring construction project performance and productivity.
3. Implement digital project monitoring tools and technologies for real-time reporting.
4. Strengthen project controls, cost management, and schedule optimization strategies.
5. Conduct comprehensive construction project evaluations using data-driven methodologies.
6. Improve quality assurance and quality control (QA/QC) systems in construction projects.
7. Apply risk assessment and mitigation strategies for construction project success.
8. Integrate sustainability, ESG principles, and green construction monitoring practices.
9. Utilize BIM, dashboards, and analytics tools for enhanced project visibility.
10. Develop effective project reporting, documentation, and communication systems.
11. Measure construction project impact, efficiency, and value creation.
12. Improve stakeholder engagement through transparent monitoring and accountability mechanisms.
13. Establish continuous improvement systems using lessons learned and performance evaluation insights.

Target Audience

1. Construction Project Managers
2. Civil Engineers and Site Engineers
3. Contractors and Subcontractors
4. Project Monitoring and Evaluation Specialists
5. Quantity Surveyors and Cost Controllers
6. Infrastructure Development Professionals
7. Government and Donor-Funded Project Officers
8. Consultants, Architects, and Construction Supervisors

Course Modules

Module 1: Fundamentals of Construction Project Monitoring and Evaluation

- Principles of Construction Project Monitoring and Evaluation (M&E).

- Role of monitoring systems in successful project delivery.
- Construction project lifecycle monitoring approaches.
- Differences between monitoring, evaluation, auditing, and inspection.
- Development of effective construction M&E frameworks.
- **Case Study:** Evaluation of a large infrastructure project where improved monitoring systems reduced delays and enhanced project accountability.

Module 2: Construction Project Performance Measurement and KPIs

- Designing effective Construction Performance Indicators (KPIs).
- Measuring cost, time, quality, and productivity performance.
- Earned Value Management (EVM) applications.
- Construction progress tracking methods.
- Performance dashboards and reporting systems.
- **Case Study:** A commercial building project using KPI dashboards to improve schedule performance and reduce cost overruns.

Module 3: Digital Tools and Smart Construction Monitoring

- Digital transformation in construction monitoring.
- Use of BIM for project visibility and coordination.
- Construction management software applications.
- Real-time data collection and reporting systems.
- Artificial Intelligence (AI) and analytics in construction monitoring.
- **Case Study:** Implementation of BIM-based monitoring on a complex construction project to improve collaboration and reduce errors.

Module 4: Construction Quality Monitoring and Compliance Management

- Quality Assurance and Quality Control (QA/QC) frameworks.
- Construction inspection and compliance monitoring.
- Material quality assessment procedures.
- Defect tracking and corrective action systems.
- International construction quality standards.
- **Case Study:** Quality monitoring intervention on a highway construction project that improved durability and reduced rework.

Module 5: Cost, Schedule, and Resource Monitoring

- Construction cost monitoring techniques.
- Budget control and financial performance analysis.
- Schedule tracking and delay management.
- Resource utilization monitoring.
- Cost forecasting and project optimization.
- **Case Study:** A public infrastructure project where cost monitoring strategies prevented budget escalation.

Module 6: Risk Management and Safety Performance Evaluation

- Construction risk identification and assessment.
- Health, Safety, and Environment (HSE) monitoring.

- Risk-based project evaluation methods.
- Incident tracking and prevention strategies.
- Climate resilience and construction risk management.
- **Case Study:** A high-rise construction project that improved safety performance through proactive risk monitoring.

Module 7: Sustainability, ESG, and Impact Evaluation in Construction

- Sustainable construction monitoring approaches.
- Environmental and social impact evaluation.
- ESG reporting requirements.
- Green building performance assessment.
- Measuring long-term project benefits and outcomes.
- **Case Study:** A green building project evaluated using sustainability indicators and environmental performance metrics.

Module 8: Advanced Reporting, Evaluation Techniques, and Continuous Improvement

- Developing professional construction M&E reports.
- Data visualization and management dashboards.
- Lessons learned and knowledge management.
- Stakeholder reporting and communication strategies.
- Continuous improvement frameworks for construction projects.
- **Case Study:** Evaluation of a major infrastructure program using performance data to improve future project delivery.

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

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