Construction Performance Measurement 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 Performance Measurement Training Course is designed to enhance construction project efficiency, productivity optimization, cost control, quality improvement, and operational excellence. In today’s competitive construction industry, organizations require advanced performance measurement frameworks, Key Performance Indicators (KPIs), digital construction analytics, Building Information Modeling (BIM), Lean Construction principles, and real-time project monitoring systems to achieve successful project outcomes. This course equips professionals with the knowledge and tools to measure, analyze, and improve construction performance across projects, portfolios, and organizations.

Through practical learning, industry case studies, and technology-focused approaches, participants will develop expertise in construction productivity analysis, project benchmarking, performance dashboards, risk management, sustainability metrics, and data-driven decision-making. The program integrates global best practices, emerging construction technologies, and performance improvement strategies to help organizations reduce delays, minimize waste, increase profitability, and deliver high-performance construction projects.

Programme Curriculum

Construction Performance Measurement Training Course

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Course Objectives

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

1. Understand advanced construction performance measurement frameworks and industry benchmarks.
2. Develop effective Construction Key Performance Indicators (KPIs) for project success.
3. Apply data analytics and digital transformation strategies in construction management.
4. Improve construction productivity, workforce efficiency, and resource utilization.
5. Implement cost performance measurement and financial control techniques.
6. Use Earned Value Management (EVM) for project performance tracking.
7. Analyze schedule performance, delay causes, and project recovery strategies.
8. Apply Lean Construction and continuous improvement methodologies.
9. Develop performance dashboards using construction technology platforms.
10. Integrate BIM-based performance monitoring and project intelligence tools.
11. Measure quality performance, safety indicators, and sustainability outcomes.
12. Implement risk-based performance assessment and predictive analytics.
13. Create strategic construction excellence models for organizational growth.

Target Audience

1. Construction Project Managers
2. Site Managers and Construction Supervisors
3. Civil Engineers and Structural Engineers
4. Quantity Surveyors and Cost Engineers
5. Planning Engineers and Project Controls Professionals
6. Contractors and Construction Company Leaders
7. BIM Managers and Digital Construction Specialists
8. Government Infrastructure and Development Professionals

Course Modules

Module 1: Fundamentals of Construction Performance Measurement

- Principles of construction performance management and measurement systems
- Importance of KPIs in modern construction projects
- Performance measurement frameworks and maturity models
- Construction benchmarking and industry standards
- Linking project performance with business objectives
- Case Study: Large-scale infrastructure project performance review

Module 2: Construction KPIs and Performance Dashboards

- Developing effective construction KPIs
- Leading and lagging performance indicators
- Productivity, cost, quality, and safety measurements
- Digital performance dashboards and reporting systems
- Real-time construction performance visualization
- Case Study: High-rise building project dashboard implementation

Module 3: Cost Performance Measurement and Financial Control

- Construction cost monitoring techniques
- Budget performance analysis
- Earned Value Management (EVM)
- Cost variance and forecasting methods
- Financial performance improvement strategies
- Case Study: Commercial development project cost recovery

Module 4: Schedule Performance and Productivity Improvement

- Measuring construction schedule performance
- Delay analysis and recovery planning
- Workforce productivity measurement
- Resource optimization techniques
- Advanced project control methodologies
- Case Study: Airport expansion project

Module 5: Quality, Safety, and Sustainability Performance Measurement

- Construction quality performance indicators
- Safety performance metrics and zero-incident strategies
- Environmental and sustainability measurement
- ESG principles in construction projects
- Continuous improvement systems
- Case Study: Green building project certification

Module 6: Lean Construction and Continuous Performance Improvement

- Lean Construction principles
- Waste reduction and workflow optimization
- Last Planner System implementation
- Value stream mapping
- Continuous improvement culture
- Case Study: Residential development project

Module 7: Digital Construction Analytics and Smart Technologies

- Digital transformation in construction
- BIM-based performance measurement
- Artificial Intelligence (AI) applications
- Internet of Things (IoT) monitoring systems
- Predictive analytics for project performance

- Case Study: Smart infrastructure project

Module 8: Strategic Performance Excellence in Construction Organizations

- Construction performance maturity models
- Organizational benchmarking strategies
- Performance improvement roadmaps
- Executive reporting and decision support
- Building a culture of construction excellence
- Case Study: Global contractor transformation program

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:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com