Training course on BIM for Facilities Management and Lifecycle Operations

Professional Development Training Course Outline

Category	Civil Engineering and Infrastructure Management	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Building Information Modeling (BIM) for Facilities Management and Lifecycle Operations marks a significant paradigm shift, extending the value of digital building models beyond design and construction into the entire operational life of an asset. In an increasingly complex built environment, leveraging BIM for facilities management (FM) is crucial for optimizing asset performance, streamlining maintenance, reducing operational costs, and enhancing occupant experience throughout the building's lifespan. Training Course on BIM for Facilities Management and Lifecycle Operations delves into the practical application of BIM technologies and methodologies to support critical FM functions. Participants will acquire advanced skills in data handover, integrating BIM with Computerized Maintenance Management Systems (CMMS), utilizing BIM for space management, energy performance monitoring, and strategic asset lifecycle planning, thereby enabling them to drive efficiency and innovation in facility operations.

Programme Curriculum

Training Course on BIM for Facilities Management and Lifecycle Operations

Introduction

Building Information Modeling (BIM) for Facilities Management and Lifecycle Operations marks a significant paradigm shift, extending the value of digital building models beyond design and construction into the entire operational life of an asset. In an increasingly complex built environment, leveraging BIM for facilities management (FM) is crucial for optimizing asset performance, streamlining maintenance, reducing operational costs, and enhancing occupant experience throughout the building's lifespan.

Training Course on BIM for Facilities Management and Lifecycle Operations delves into the practical application of BIM technologies and methodologies to support critical FM functions. Participants will acquire advanced skills in data handover, integrating BIM with Computerized Maintenance Management Systems (CMMS), utilizing BIM for space management, energy performance monitoring, and strategic asset lifecycle planning, thereby enabling them to drive efficiency and innovation in facility operations.

Course Objectives

Upon completion of this course, participants will be able to:

1. Analyze the fundamental concepts of BIM for Facilities Management and its role in asset lifecycle.
2. Comprehend the principles of data handover from construction to operations using BIM.
3. Master various BIM software and platforms for facility data management.
4. Develop expertise in linking BIM models with Computerized Maintenance Management Systems (CMMS) and Enterprise Asset Management (EAM).
5. Formulate strategies for applying BIM for space management and utilization optimization.
6. Understand the critical role of BIM in preventive maintenance and reactive maintenance planning.
7. Implement robust approaches to energy performance monitoring and sustainability reporting using BIM.
8. Explore key strategies for BIM-based asset tracking and inventory management.
9. Apply methodologies for ensuring data quality and security in operational BIM environments.
10. Understand the importance of using BIM for emergency preparedness and evacuation planning.
11. Develop preliminary skills in visualizing and reporting facility performance insights from BIM data.
12. Design a comprehensive BIM implementation plan for facilities management and operations.
13. Examine global best practices and lessons learned in BIM for facilities lifecycle.

Target Audience

This course is essential for professionals seeking to conduct or commission research in social protection:

1. Facilities Managers & Operations Directors: Needing to leverage BIM for operational efficiency.
2. Asset Managers: Seeking to optimize asset performance and lifecycle costs.
3. Maintenance Planners & Engineers: Aiming to improve maintenance strategies with BIM.
4. Real Estate & Property Managers: Interested in utilizing BIM for portfolio management.
5. BIM Coordinators & Managers: Transitioning from design/construction to operational BIM.
6. IT & Data Specialists: Supporting FM systems and data integration.
7. Sustainability Managers: Looking to use BIM for energy and environmental performance.
8. Building Owners & Developers: Seeking long-term operational benefits from BIM.

Course Duration: 10 Days

Course Modules

Module 1: Foundations of BIM for Facilities Management

- Define BIM's role in the entire asset lifecycle, from design to demolition.
- Discuss the strategic value proposition of BIM for Facilities Management (FM).
- Understand the distinction between design/construction BIM and operational BIM.
- Explore common challenges and opportunities in integrating BIM into FM.
- Identify key stakeholders and their requirements in FM BIM workflows.

Module 2: BIM Data Handover and Information Requirements

- Comprehend the principles of effective data handover from construction to operations.
- Learn to define and implement Information Delivery Specifications (IDS) for FM data.
- Differentiate between various handover protocols (e.g., COBie, bespoke).
- Understand the importance of clear Asset Information Requirements (AIR) and Organizational Information Requirements (OIR).
- Plan for data validation and quality control during BIM handover.

Module 3: BIM for Space Management and Utilization

- Master techniques for using BIM models for accurate space planning and analysis.
- Learn about space occupancy tracking and utilization reporting with BIM.
- Explore strategies for managing flexible workspaces and reconfigurations.
- Discuss the integration of BIM with space booking systems and IoT data.
- Gain hands-on experience in analyzing space metrics and generating reports.

Module 4: Integrating BIM with CMMS and EAM Systems

- Develop expertise in linking BIM models with Computerized Maintenance Management Systems (CMMS).
- Understand the rationale and benefits of integrating BIM with Enterprise Asset Management (EAM) platforms.
- Formulate strategies for mapping BIM asset data to CMMS/EAM fields.
- Discuss the challenges and solutions for seamless data exchange between systems.
- Explore case studies of successful BIM-CMMS/EAM integrations.

Module 5: Preventive and Reactive Maintenance with BIM

- Formulate strategies for leveraging BIM to enhance preventive maintenance programs.
- Understand the process of scheduling and tracking maintenance tasks via BIM-linked data.
- Explore methods for using BIM for fault diagnosis and reactive maintenance.
- Analyze maintenance history and performance metrics using BIM insights.
- Learn to optimize maintenance routes and resource allocation with BIM.

Module 6: Asset Tracking, Inventory Management, and Lifecycle Costing

- Understand the critical role of BIM in comprehensive asset tracking and inventory management.
- Implement robust approaches to tagging and classifying assets within BIM models.
- Revisit techniques for managing asset warranties, lifespans, and replacement cycles.
- Discuss the application of BIM for lifecycle costing and total cost of ownership (TCO) analysis.
- Learn to generate asset registers and reports directly from BIM.

Module 7: Energy Performance Monitoring and Sustainability Reporting

- Implement robust approaches to using BIM for building energy performance analysis.
- Learn about integrating real-time sensor data with BIM for energy consumption monitoring.
- Discuss strategies for identifying energy inefficiencies and recommending improvements.
- Understand how BIM supports sustainability certification and reporting (e.g., LEED, BREEAM).
- Address common challenges in achieving energy targets through BIM.

Module 8: Occupant Experience and Workplace Technologies

- Explore key strategies for improving occupant experience through BIM-enabled technologies.

- Learn about integrating smart building systems (lighting, HVAC, access control) with BIM.
- Understand how BIM can support indoor navigation and wayfinding.
- Gain hands-on experience with IoT data visualization within BIM models.
- Discuss the future of smart workplaces and predictive FM.

Module 9: Emergency Preparedness, Safety, and Security with BIM

- Apply methodologies for using BIM for emergency route planning and evacuation simulations.
- Master techniques for integrating security systems (CCTV, access control) with BIM models.
- Understand principles of physical security and access control integration with BIM.
- Discuss the role of BIM in fire safety planning and compliance.
- Explore how BIM can support post-disaster assessment and recovery efforts.

Module 10: Legal, Contractual, and Risk Management in FM BIM

- Understand the importance of legal frameworks and contracts in FM BIM implementation.
- Discuss legal implications of BIM data ownership and liability in FM.
- Learn about contractual agreements for BIM handover and operational use.
- Examine risk management strategies associated with BIM data and system integration.
- Understand insurance considerations for BIM-enabled facilities.

Module 11: Performance Benchmarking and Continuous Improvement

- Develop preliminary skills in using BIM for facility performance benchmarking.
- Learn to define and track key performance indicators (KPIs) for FM operations.
- Discuss strategies for continuous improvement based on BIM data analysis.
- Explore methodologies for optimizing facility workflows with BIM insights.
- Practice presenting facility performance reports derived from BIM.

Module 12: Future Trends and Strategic Roadmapping for FM BIM

- Examine global best practices and emerging trends in FM BIM.
- Explore the impact of digital twins and AI on facilities management.
- Discuss the integration of BIM with augmented reality (AR) for field operations.
- Learn to develop a strategic roadmap for BIM adoption in FM organizations.
- Analyze case studies of innovative FM BIM implementations.

Training Methodology

- **Interactive Workshops:** Facilitated discussions, group exercises, and problem-solving activities.
- **Case Studies:** Real-world examples to illustrate successful community-based surveillance practices.
- **Role-Playing and Simulations:** Practice engaging communities in surveillance activities.
- **Expert Presentations:** Insights from experienced public health professionals and community leaders.
- **Group Projects:** Collaborative development of community surveillance plans.
- **Action Planning:** Development of personalized action plans for implementing community-based surveillance.
- **Digital Tools and Resources:** Utilization of online platforms for collaboration and learning.
- **Peer-to-Peer Learning:** Sharing experiences and insights on community engagement.
- **Post-Training Support:** Access to online forums, mentorship, and continued learning resources.

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

- Participants must be conversant in English.
- Upon completion of training, participants will receive an Authorized Training Certificate.
- The course duration is flexible and can be modified to fit any number of days.
- Course fee includes facilitation, training materials, 2 coffee breaks, buffet lunch, and a Certificate upon successful completion.
- One-year post-training support, consultation, and coaching provided after the course.
- Payment should be made at least a week before the training commencement to Fineskill Training Center account, as indicated in the invoice, to enable better preparation.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

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

Register Online Now

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