BIM for Digital Project Delivery Training Course

Professional Development Training Course Outline

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

Course Introduction

Building Information Modeling (BIM) for Digital Project Delivery is transforming the global construction, architecture, engineering, and infrastructure industries by enabling integrated, data-driven, and collaborative project execution. BIM for Digital Project Delivery Training Course is designed to equip professionals with advanced competencies in BIM workflows, digital construction management, cloud-based collaboration, and lifecycle asset management. It focuses on end-to-end digital project delivery (DPD) using industry-leading BIM standards, tools, and protocols to enhance efficiency, reduce project risks, and improve cost and time performance.

In today's fast-evolving built environment, organizations demand professionals skilled in BIM coordination, 4D scheduling, 5D cost integration, digital twins, ISO 19650 standards, and CDE (Common Data Environment) management. This course bridges the gap between traditional construction practices and modern digital delivery systems by empowering learners with practical, industry-relevant expertise for smart infrastructure development and intelligent project execution.

Programme Curriculum

BIM for Digital Project Delivery Training Course

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Course Duration

5 days

Course Objectives

1. Master BIM-based Digital Project Delivery (DPD) workflows
2. Understand ISO 19650 BIM standards and compliance frameworks
3. Develop expertise in 4D construction sequencing and simulation
4. Apply 5D cost estimation and quantity take-off integration
5. Manage Common Data Environment (CDE) platforms effectively
6. Enhance skills in clash detection and coordination management
7. Implement digital twin technology for asset lifecycle management
8. Improve construction productivity using BIM automation tools
9. Gain proficiency in cloud-based BIM collaboration systems
10. Integrate sustainable construction practices using BIM analytics
11. Execute interdisciplinary coordination across AECO sectors
12. Optimize risk management using digital construction models
13. Deliver end-to-end smart infrastructure project solutions

Target Audience

1. Civil Engineers
2. Architects and Architectural Designers
3. Construction Project Managers
4. BIM Modelers and Coordinators
5. Quantity Surveyors
6. Infrastructure and Urban Planners
7. MEP Engineers (Mechanical, Electrical, Plumbing)
8. Real Estate Developers and Consultants

Course Modules

Module 1: Introduction to BIM & Digital Project Delivery

- BIM fundamentals and evolution
- Digital Project Delivery ecosystem
- AECO industry transformation
- BIM maturity levels overview
- Role of DPD in smart construction
- **Case Study:** BIM adoption in a large-scale smart city infrastructure project

Module 2: BIM Standards & ISO 19650 Framework

- ISO 19650 principles and structure
- Information management requirements
- BIM execution plans (BEP)
- Data classification systems
- Compliance and governance
- **Case Study:** ISO 19650 implementation in government infrastructure project

Module 3: 3D BIM Modeling & Coordination

- Parametric modeling techniques
- Discipline-based BIM creation
- Model federation and coordination
- Clash detection processes
- Model validation standards
- **Case Study:** Multi-disciplinary coordination in high-rise commercial development

Module 4: 4D Construction Planning & Scheduling

- Linking BIM with project schedules
- Construction sequencing simulation
- Time-risk analysis techniques
- Resource optimization planning
- Visualization of construction phases
- **Case Study:** 4D simulation of highway construction project

Module 5: 5D Cost Estimation & Quantity Take-Off

- Automated quantity extraction
- Cost integration with BIM models
- Budget forecasting techniques
- Value engineering applications
- Cost control dashboards
- **Case Study:** 5D BIM cost optimization in residential housing project

Module 6: Common Data Environment (CDE) Management

- CDE structure and workflows
- Document control and versioning
- Cloud collaboration platforms
- Data security and access control
- Information lifecycle management
- **Case Study:** CDE implementation in airport expansion project

Module 7: Digital Twin & Asset Lifecycle Management

- Digital twin concepts and applications
- Real-time data integration
- Facility management integration
- Predictive maintenance modeling
- Smart infrastructure monitoring
- **Case Study:** Digital twin deployment in smart hospital infrastructure

Module 8: BIM Integration, Automation & Future Trends

- AI and automation in BIM
- IoT integration with construction models
- Generative design workflows
- Sustainability and carbon tracking
- Future of smart construction ecosystems
- **Case Study:** AI-driven BIM automation in green building project

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