



Future-Oriented Training and Consulting

DIGITAL TWIN AND FACILITY MANAGEMENT PROGRAM

Digital Twin & Facility Management using BIM

Equipping teams to extend BIM value into a building's operational lifecycle.

Proven Operations Frameworks Structured frameworks for digital twin and facility data strategy.	Executive Discussions Case studies, simulations, and executive discussions from real facilities.
Digital Twin Platform Exposure Hands-on exposure to digital twin and facility management platforms.	Practical Operations Strategy A strategy for leveraging BIM data in ongoing facility operations.

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Program Overview

This program explores how digital twin technology and BIM extend value into a building's operational lifecycle.

Through case studies, executive discussions, simulations, and hands-on exposure to digital twin and facility management platforms, participants will develop a practical strategy for leveraging BIM data in ongoing facility operations.

Program Objectives

- **Understand Digital Twin Concepts:** Grasp how digital twins extend BIM into operations.
- **Transition BIM Models to Operations:** Prepare as-built models for facility management use.
- **Apply Digital Twin Platforms:** Use platforms to connect models with live building data.
- **Leverage Data for Facility Operations:** Use BIM and sensor data to inform maintenance decisions.
- **Optimize Building Performance:** Use digital twin insight to improve efficiency and uptime.
- **Sustain Digital Twin Value:** Keep models and data current through the building lifecycle.

Target Audience

This program is designed for professionals extending BIM value into facility operations, including:

- **Facility & Operations Managers** using digital twins to manage buildings.
- **BIM Managers & Coordinators** preparing models for operational handover.
- **Asset & Maintenance Managers** planning maintenance from model and sensor data.
- **IoT & Systems Integration Specialists** connecting sensors to digital twin platforms.
- **Owners & Asset Managers** overseeing long-term building performance.
- **IT & Digital Transformation Leaders** rolling out digital twin platforms across portfolios.
- **Consultants & Facility Advisors** guiding clients on digital twin adoption.

Program Impact

Participants will leave this program with a practical digital twin strategy. Graduates will return to their organizations ready to leverage BIM data in ongoing facility operations.

Program Outline

MODULE 1: Foundations of Digital Twin and Facility Management

- Core concepts behind digital twin technology
- How digital twins extend BIM into operations
- Overview of leading digital twin and FM platforms
- The manager's role in operational BIM use
- Common pitfalls in digital twin adoption

MODULE 2: Transitioning Models to Operations

- Preparing as-built models for handover
- Structuring asset data for facility management
- Validating model accuracy against as-built conditions
- Hands-on exposure to handover and FM tools
- Connecting models to facility management systems

MODULE 3: Digital Twin Platforms and Data Integration

- Connecting BIM models to live building data
- Integrating IoT sensors and building systems
- Hands-on exposure to digital twin platforms
- Visualizing real-time building performance

MODULE 4: Data-Driven Facility Operations

- Using data to plan preventive maintenance
- Identifying performance issues from sensor trends
- Prioritizing maintenance and capital planning
- Using maintenance and asset management tools
- Building a data-driven operations strategy

MODULE 5: Performance Optimization and Ongoing Practice

- Using insight to improve efficiency and uptime
- Monitoring building performance continuously
- Updating models and data as the building evolves
- Sustaining digital twin value beyond the program