



Future-Oriented Training and Consulting

BIM AND ENGINEERING SAFETY PROGRAM

Introduction to BIM and Engineering Safety Standards

Equipping engineers to integrate BIM workflows while upholding rigorous safety standards.

Proven BIM Frameworks Structured frameworks for BIM adoption and safety compliance.	Executive Discussions Case studies, simulations, and executive discussions from real projects.
BIM Software Exposure Hands-on exposure to BIM software and safety compliance frameworks.	Practical BIM Workflow A practical BIM workflow that upholds rigorous safety standards.

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Program Overview

This program introduces Building Information Modeling (BIM) and the safety standards that govern modern engineering practice.

Through case studies, executive discussions, simulations, and hands-on exposure to BIM software and safety compliance frameworks, participants will develop the practical skills to integrate BIM workflows while upholding rigorous safety standards.

Program Objectives

- **Understand BIM Fundamentals:** Grasp core BIM concepts, models, and collaborative workflows.
- **Work with BIM Software:** Build and navigate models using leading BIM platforms.
- **Apply Engineering Safety Standards:** Apply the codes and standards governing safe engineering practice.
- **Integrate Safety into BIM Workflows:** Embed safety compliance checks into the BIM process.
- **Coordinate Multi-Disciplinary BIM Projects:** Manage BIM collaboration across design and construction teams.
- **Sustain Safety and BIM Practices:** Apply compliance and model management practices long-term.

Target Audience

This program is designed for professionals integrating BIM and safety practice into engineering projects, including:

- **Civil & Structural Engineers** adopting BIM in design and delivery.
- **Architects & Design Leads** coordinating models across disciplines.
- **Project & Construction Managers** overseeing BIM-enabled project delivery.
- **Health & Safety Officers** enforcing engineering safety standards.
- **BIM Coordinators & Modelers** managing models and clash detection.
- **IT & Digital Transformation Leaders** rolling out BIM software across teams.
- **Consultants & Compliance Advisors** guiding clients on BIM and safety adoption.

Program Impact

Participants will leave this program with practical BIM skills and safety compliance knowledge. Graduates will return to their organizations ready to integrate BIM workflows while upholding rigorous engineering safety standards.

Program Outline

MODULE 1: Foundations of Building Information Modeling

- Core BIM concepts, dimensions, and maturity levels
- Understanding model-based collaborative workflows
- Overview of leading BIM software platforms
- The engineer's role in BIM-enabled projects
- Common pitfalls in early BIM adoption

MODULE 2: Working with BIM Software

- Navigating models, layers, and object data
- Building and editing components in BIM tools
- Managing model versions and permissions
- Extracting drawings and quantities from models
- Hands-on exposure to BIM software platforms

MODULE 3: Engineering Safety Standards and Codes

- Key safety codes and regulatory requirements
- Structural, fire, and life-safety standards
- Documenting compliance and safety evidence
- Managing risk across the project lifecycle

MODULE 4: Integrating Safety into BIM Workflows

- Embedding safety checks into model reviews
- Clash detection and safety-driven design changes
- Auditing models for compliance gaps
- Using safety compliance frameworks and checklists
- Building a compliant, coordinated BIM model

MODULE 5: Coordination and Ongoing Practice

- Coordinating BIM models across disciplines
- Monitoring model updates and version control
- Managing handover and as-built documentation
- Sustaining safety and BIM practices beyond the program