



Future-Oriented Training and Consulting

BIM IN EPC PROJECTS PROGRAM

BIM in EPC Projects: Safety, Engineering & Construction Integration

Equipping teams to align safety, design, and construction phases in EPC delivery.

Proven EPC Integration Frameworks Structured frameworks for integrating safety, engineering, and construction.	Executive Discussions Case studies, simulations, and executive discussions from real EPC projects.
BIM Coordination Platform Exposure Hands-on exposure to BIM coordination platforms.	Aligned EPC Delivery A practical approach to aligning safety, design, and construction phases.

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Program Overview

This program explores how BIM integrates safety, engineering, and construction workflows across EPC (Engineering, Procurement, Construction) projects.

Through case studies, executive discussions, simulations, and hands-on exposure to BIM coordination platforms, participants will develop a practical approach to aligning safety, design, and construction phases in complex EPC delivery.

Program Objectives

- **Understand BIM's Role in EPC Delivery:** Grasp how BIM connects engineering, procurement, and construction.
- **Integrate Safety into Engineering Models:** Embed safety requirements within design models.
- **Apply BIM Coordination Platforms:** Use platforms to coordinate engineering and construction data.
- **Align Design and Construction Phases:** Connect models across EPC project phases.
- **Manage EPC Coordination Workflows:** Run structured coordination cycles across disciplines.
- **Sustain Integrated EPC Practices:** Apply coordination discipline through project completion.

Target Audience

This program is designed for professionals integrating safety, engineering, and construction in EPC projects, including:

- **EPC Project Managers** overseeing integrated EPC delivery.
- **BIM Coordinators & Modelers** managing models across EPC phases.
- **Process & Facility Engineers** integrating engineering models with BIM.
- **HSE & Safety Officers** embedding safety into EPC workflows.
- **Construction Managers** coordinating construction against design models.
- **IT & Digital Transformation Leaders** rolling out BIM coordination platforms.
- **Consultants & EPC Advisors** guiding clients on integrated EPC delivery.

Program Impact

Participants will leave this program with a practical approach to integrated EPC delivery. Graduates will return to their organizations ready to align safety, design, and construction phases in complex EPC delivery.

Program Outline

MODULE 1: Foundations of BIM in EPC Projects

- How BIM connects engineering, procurement, and construction
- Core concepts across the EPC project lifecycle
- Overview of leading BIM coordination platforms
- The team's role in integrated EPC delivery
- Common pitfalls in EPC integration efforts

MODULE 2: Integrating Safety into Engineering Models

- Embedding safety requirements within design models
- Documenting safety data within the BIM environment
- Identifying and resolving safety gaps early
- Hands-on exposure to safety-integrated modeling tools
- Applying safety standards to engineering deliverables

MODULE 3: BIM Coordination Across EPC Phases

- Connecting models to procurement and construction data
- Federating models across engineering disciplines
- Hands-on exposure to BIM coordination platforms
- Running clash detection and resolving conflicts

MODULE 4: Aligning Design and Construction Phases

- Connecting design intent to construction sequencing
- Managing handoffs between engineering and construction
- Auditing models for construction readiness
- Using phase-alignment tracking tools
- Building an aligned, construction-ready model set

MODULE 5: EPC Coordination Workflow and Ongoing Practice

- Running structured coordination cycles across disciplines
- Monitoring coordination status through project completion
- Updating models as design and site conditions change
- Sustaining integrated EPC practices beyond the program