



Consulting and Training | Reach New Heights

Course Name

BIM for Construction Coordination & Execution

Sector Name

Civil Engineering

Document Type

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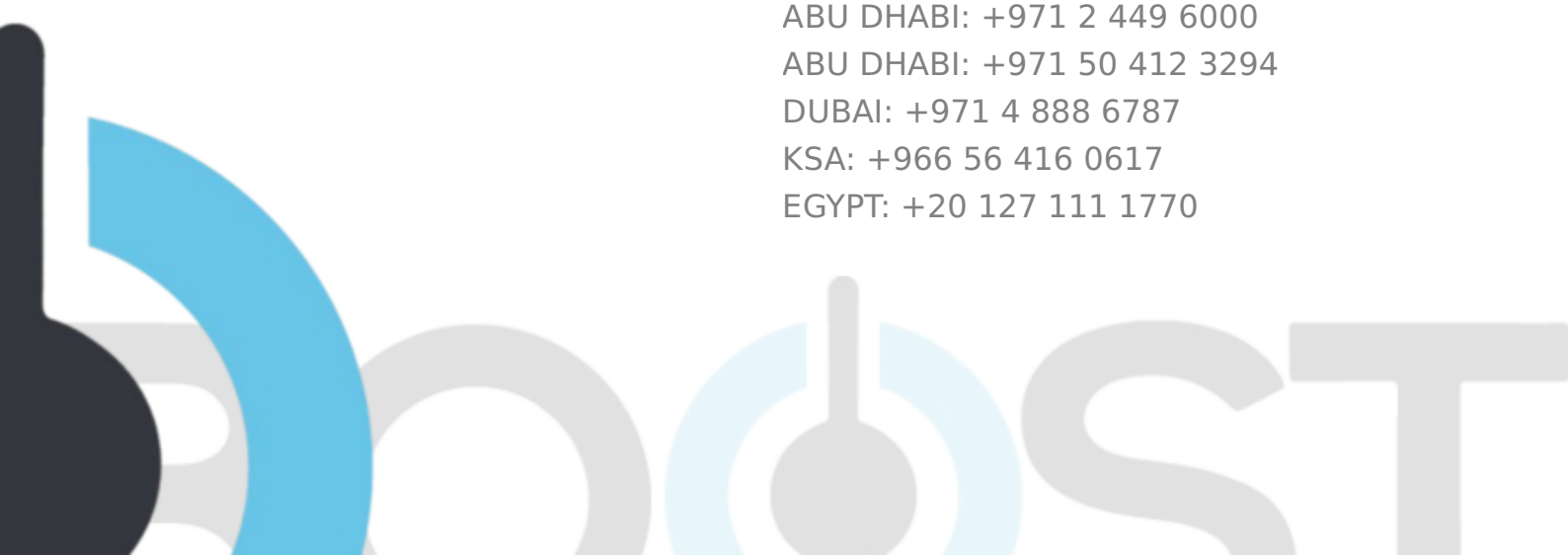
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BIM for Construction Coordination & Execution

Course Introduction

BIM models can contain a large amount of project information, but their real construction value appears when that information helps teams solve coordination and execution problems before they reach the field. Design interfaces, spatial conflicts, incomplete information, sequencing constraints, and differences between model intent and site reality can create rework and disruption when BIM is treated mainly as a modeling or visualization tool rather than as an active construction coordination environment.

Boost Consulting & Training has designed this course around the practical use of BIM between design coordination and site execution. Participants will learn how to review multidisciplinary models from a construction perspective, detect and prioritize clashes, evaluate constructability, coordinate model-based resolutions, connect BIM information with work sequencing, and use model information to support field teams. The program is platform-independent and focuses on engineering workflows and decisions rather than software commands.

The main concept of this course is to use BIM as a shared construction coordination environment that converts model information into buildable, coordinated, and field-ready solutions.

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BIM for Construction Coordination & Execution

Target Audience

- ✓ Civil and construction engineers
- ✓ BIM and technical coordination engineers
- ✓ Site and project engineers
- ✓ Design coordination and engineering professionals

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Learning Objectives

- ✓ Explain the role of BIM in construction coordination and field execution.
- ✓ Review multidisciplinary models from a constructability and execution perspective.
- ✓ Identify and prioritize clashes according to their actual construction impact.
- ✓ Coordinate technical resolutions across structural, architectural, civil, and MEP interfaces.
- ✓ Evaluate model information for completeness and readiness before construction.
- ✓ Apply BIM information to construction sequencing and work-package coordination.
- ✓ Connect model-based decisions with drawings, field information, and site activities.
- ✓ Establish practical BIM coordination workflows that support construction delivery.

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Course Outline

✓ DAY 1

BIM as a Construction Coordination Environment

Connecting the Model to Construction Needs

- ✓ Understanding the difference between model creation and construction-oriented BIM use
- ✓ Identifying the information field and coordination teams need from multidisciplinary models
- ✓ Relating model maturity and information availability to construction decisions

Assessing Model Readiness for Coordination

- ✓ Reviewing model scope, discipline coverage, interfaces, and information completeness
- ✓ Identifying missing, inconsistent, or unreliable information before coordination begins
- ✓ Completing a BIM Readiness Review for a simulated construction package

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Course Outline

✓ DAY 2

Managing Multidisciplinary Coordination

Detecting Meaningful Construction Clashes

- ✓ Distinguishing physical clashes from clearance, access, tolerance, and operational conflicts
- ✓ Filtering coordination results in avoiding wasting effort on low-value clash volumes
- ✓ Grouping related conflicts according to location, system, and construction impact

Prioritizing and Resolving Coordination Issues

- ✓ Ranking clashes according to severity, downstream impact, and urgency
- ✓ Identifying the disciplines and decisions required to achieve a coordinated resolution
- ✓ Running a Clash Resolution Workshop involving multiple project disciplines

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Course Outline

✓ DAY 3

Reviewing Constructability Through BIM

Testing the Model Against Site Reality

- ✓ Reviewing access, installation space, working clearances, interfaces, and execution constraints
- ✓ Identifying model solutions that are technically correct but difficult to construct
- ✓ Considering tolerances and actual installation requirements during model review

Coordinating Construction Sequence

- ✓ Connecting model elements with construction activities and work packages
- ✓ Reviewing sequence dependencies and spatial conflicts between successive activities
- ✓ Completing a Model-Based Sequencing Challenge for a complex construction zone

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Course Outline

✓ DAY 4

Taking BIM from Coordination Room to Site

Translating Coordinated Models into Field Information

- ✓ Extracting relevant model information for specific locations, activities, and site teams
- ✓ Connecting coordinated models with drawings, details, technical queries, and approved changes
- ✓ Maintaining consistency between model decisions and information released for construction

Using BIM to Support Field Execution

- ✓ Applying model views to site coordination, installation planning, and technical clarification
- ✓ Comparing planned model conditions with actual field constraints and completed work
- ✓ Conducting a Model-to-Field Coordination Simulation involving an emerging site conflict

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Course Outline

✓ DAY 5

Running an Effective BIM Coordination Cycle

Managing Coordination Decisions and Closure

- ✓ Structuring coordination meetings around decisions, responsibilities, priorities, and deadlines
- ✓ Tracking issues from detection through technical resolution and verified closure
- ✓ Preventing unresolved model issues from progressing into construction

Connecting BIM Coordination with Project Delivery

- ✓ Aligning BIM coordination priorities with upcoming construction activities and project milestones
- ✓ Measuring coordination effectiveness through rework avoidance, issue closure, and field readiness
- ✓ Developing a BIM Coordination & Execution Workflow for a realistic project environment

BIM for Construction Coordination & Execution

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
Dec. 7, 2026	Dec. 11, 2026	5 days	4250.00 \$	UAE , Dubai
Feb. 1, 2027	Feb. 5, 2027	5 days	4250.00 \$	UAE , Abu Dhabi
May 31, 2027	June 4, 2027	5 days	4950.00 \$	England , London
Aug. 29, 2027	Sept. 2, 2027	5 days	4250.00 \$	KSA , Jeddah

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