Building Information Modeling (BIM) Fundamentals Training

2027 □□□□□□ 4 – □□□□□ 31
Cairo (Egypt)



Building Information Modeling (BIM) Fundamentals Training

Ref: 20222981_220849 Date: 31 Location: Cairo (Egypt) Fees: 4900 GBP

Course Description

This comprehensive 1-week course introduces participants to the fundamentals of Building Information Modeling BIM and its applications in the construction industry. Participants will learn essential BIM concepts, 3D modeling techniques, collaboration tools, and practical applications to enhance project efficiency and communication.

Learning Objectives

- Understand core BIM concepts and their impact on construction projects
- Master basic 3D modeling techniques using industry-standard BIM software
- Learn to collaborate effectively using BIM tools and workflows
- Apply BIM principles to real-world construction scenarios
- Develop strategies for implementing BIM in your organization

Course Modules

Day 1: Introduction to BIM

- BIM fundamentals and terminology
- Evolution from 2D CAD to 3D BIM
- Benefits and challenges of BIM implementation
- BIM standards and best practices

Day 2: BIM Software and 3D Modeling Basics

- Introduction to popular BIM software platforms
- User interface and navigation
- Creating and modifying basic 3D elements
- Working with levels, grids, and reference planes

Day 3: Advanced Modeling and Data Management

- Creating custom families and components
- Adding parameters and constraints to models
- Managing project information and metadata
- Generating schedules and quantity takeoffs



Day 4: Collaboration and Coordination

- Setting up a Common Data Environment CDE
- File sharing and version control
- Clash detection and issue management
- Collaborative workflows and team communication

Day 5: Practical Applications and Implementation

- 4D scheduling and 5D cost estimation
- Virtual design and construction VDC principles
- BIM for facilities management and operations
- Developing a BIM implementation strategy

Practical Wins for Participants

- Create basic 3D BIM models for construction projects
- Improve project communication and reduce errors through effective BIM use
- Generate accurate quantity takeoffs and cost estimates from BIM models
- Develop a roadmap for implementing BIM in their organization

