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Course Name

BIM (Building Information Modeling) in Civil Engineering

Sector Name

Civil Engineering

Document Type

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BIM (Building Information Modeling) in Civil Engineering

Course Introduction

Building Information Modeling (BIM)

Building Information Modeling (BIM) is revolutionizing the civil engineering industry by offering an integrated approach to design, construction, and management. BIM is a digital representation of the physical and functional characteristics of a facility, enabling stakeholders to collaborate effectively throughout a project lifecycle.

This course provides a comprehensive understanding of BIM principles, tools, and applications in civil engineering. Participants will learn how to use BIM to improve efficiency, reduce costs, enhance collaboration, and manage projects from conception to completion, ensuring high-quality outcomes.

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Target Audience

- ✓ Civil engineers.
- ✓ Experienced Civil Engineers Seeking Professional Development
- ✓ Architects and Urban Planners
- ✓ Entrepreneurs in the Construction Industry
- ✓ Project Managers in the Construction Industry

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Learning Objectives

- ✓ Understand the core principles and concepts of BIM in civil engineering.
- ✓ Learn how to use BIM tools for design, analysis, and construction management.
- ✓ Explore the benefits of BIM in enhancing collaboration and decision-making.
- ✓ Apply BIM workflows in project lifecycle management.
- ✓ Integrate BIM with emerging technologies for advanced civil engineering solutions.
- ✓ Recognize global BIM standards and best practices for implementation.

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Course Outline

✓ DAY 01

Introduction to BIM and Civil Engineering Applications

- ✓ Introduction to BIM: Concepts, principles, and evolution
- ✓ BIM in civil engineering: Role and relevance in modern infrastructure projects
- ✓ Benefits and challenges of BIM adoption
- ✓ BIM software overview: Key tools and platforms (e.g., Autodesk Revit, Navisworks)
- ✓ BIM Standards and Guidelines: An introduction to ISO 19650 and industry practices

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Course Outline

✓ Day 02

BIM Implementation in Design and Modeling

- ✓ BIM workflows for design development
- ✓ Creating and managing 3D models in BIM software
- ✓ Integration of structural, architectural, and MEP components
- ✓ Clash detection and coordination in BIM models
- ✓ **Case studies:** Successful BIM implementation in civil engineering design

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Course Outline

✓ Day 03

BIM for Construction Planning and Management

- ✓ **4D BIM:** Integrating time and scheduling into models
- ✓ **5D BIM:** Cost estimation and budgeting with BIM
- ✓ Construction sequence visualization and simulation
- ✓ Risk management and mitigation using BIM
- ✓ **Collaborative workflows:** Enhancing communication between stakeholders

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Course Outline

✓ Day 04

BIM in Operation and Maintenance

- ✓ **6D BIM:** Facility management and lifecycle sustainability
- ✓ **Digital twins:** Integrating IoT and real-time data with BIM
- ✓ Asset management and maintenance planning using BIM
- ✓ **BIM for renovations and retrofits:** Managing existing structures
- ✓ Legal and contractual considerations in BIM-enabled projects

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Course Outline

✓ Day 05

Advanced Applications and Future Trends in BIM

- ✓ **Emerging technologies in BIM:** AI, machine learning, and AR/VR applications
- ✓ Interoperability and integration with GIS and other systems
- ✓ BIM for smart cities and large-scale infrastructure projects
- ✓ Global standards, certifications, and best practices for BIM adoption
- ✓ **Final project:** Develop a BIM workflow for a civil engineering case study
- ✓ Course review and Q&A session

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
May 24, 2027	May 28, 2027	5 days	4950.00 \$	Spain , Madrid
Sept. 21, 2026	Sept. 25, 2026	5 days	4250.00 \$	UAE , Dubai
Nov. 29, 2026	Dec. 3, 2026	5 days	4250.00 \$	KSA , Jeddah
Jan. 18, 2027	Jan. 22, 2027	5 days	4250.00 \$	UAE , Dubai

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