Strategic BIM Implementation for Project Managers Training Course



19 - 23 Oct 2026

Casablanca

4500 € (Per Person)

Ref: #CON9389_271681

Course Introduction / Overview:

This course offers a comprehensive exploration of Building Information Modeling (BIM) from a project management perspective, moving beyond basic 3D modeling to strategic implementation and lifecycle management. In today's digitally-driven construction landscape, a project manager's ability to effectively lead BIM-enabled projects is critical for success. This program is designed to equip participants with the strategic skills needed to plan, execute, and deliver projects with enhanced efficiency, reduced risk, and improved collaboration. Drawing on principles outlined by pioneers like Chuck Eastman in his seminal work, the "BIM Handbook", this course emphasizes the managerial and procedural aspects of digital construction. Participants will learn to navigate the complexities of BIM standards, such as ISO 19650, and develop robust BIM Execution Plans. At BIG BEN Training Center, we provide a curriculum focused on practical application, ensuring that project managers can leverage BIM as a powerful tool for data-driven decision-making, cost control, and stakeholder communication throughout the entire project lifecycle, from initial design to facility management. This training is your gateway to mastering the digital transformation of the AEC industry.

Target Audience / This training course is suitable for:

- Project Managers.
- Construction Managers.
- Program Managers.
- Project Engineers.
- Architects and Lead Designers.
- BIM Managers and Coordinators.
- VDC (Virtual Design and Construction) Managers.
- Cost Estimators and Quantity Surveyors.
- Client Representatives and Asset Owners.
- Senior-level professionals in the AEC industry.

Target Sectors and Industries:

- Construction and Engineering.
- Real Estate Development.
- Architecture and Design Services.
- Infrastructure and Civil Engineering.
- Oil and Gas.
- Governmental bodies and Public Works agencies.
- Facility Management and Operations.
- Consulting Firms.

Target Organizations Departments:

- Project Management Office (PMO).
- Engineering and Design.
- Construction and Site Operations.
- Planning and Scheduling.
- Cost Control and Estimation.
- Contracts and Procurement.
- Quality Assurance and Quality Control.
- Facility and Asset Management.

Course Offerings:

By the end of this course, the participants will have able to:

- Develop a comprehensive and strategic BIM Execution Plan (BEP) aligned with project goals.
- Implement and manage a Common Data Environment (CDE) based on ISO 19650 standards.
- Lead effective BIM coordination and clash detection meetings to resolve design conflicts proactively.
- Utilize 4D and 5D BIM for advanced project scheduling and accurate cost estimation.
- Integrate BIM into risk management processes to identify and mitigate potential project issues.
- Manage the flow of information and data exchange between multidisciplinary teams.
- Oversee the creation of as-built models and the handover of COBie data for facility management.
- Evaluate and select appropriate BIM technologies and workflows for different project types.
- Champion BIM adoption and manage organizational change within a project team or company.
- Leverage BIM data for enhanced reporting, decision-making, and stakeholder communication.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be immersive, interactive, and directly applicable to the professional challenges faced by project managers. We believe in an experiential learning approach that moves beyond theoretical lectures. The course is built around a series of real-world case studies, allowing participants to analyze successful and unsuccessful BIM implementation strategies. A significant portion of the training is dedicated to hands-on workshops and simulation exercises where participants will collaboratively develop key documents like a BIM Execution Plan. Group discussions and brainstorming sessions are integral, fostering a peer-to-peer learning environment where managers can share experiences and solutions to common BIM adoption hurdles. Our expert instructors facilitate these sessions, providing personalized feedback and guiding participants through complex decision-making scenarios. The methodology emphasizes critical thinking and strategic planning over software proficiency, ensuring that attendees leave with a robust managerial framework they can immediately apply to drive value and efficiency on their projects. The focus is on building leadership competence in the digital construction environment.

Course Agenda (Course Units):

Unit One: Strategic Foundations of BIM for Project Management

- The evolution of BIM beyond 3D modeling.
- Understanding the project manager's role in a BIM-driven environment.
- Core concepts of ISO 19650 for information management.
- Defining project goals and BIM uses.
- Introduction to the BIM Execution Plan (BEP).
- Stakeholder analysis and communication planning.
- Legal and contractual implications of BIM.

Unit Two: Planning and Implementing a BIM Project

- Developing a pre-contract BIM Execution Plan.
- Establishing a Common Data Environment (CDE) workflow.
- Defining Levels of Information Need (LOIN).
- Building a competent and collaborative project team.
- Technology and software selection criteria for project managers.
- Managing the BIM kick-off meeting effectively.
- Risk assessment for BIM implementation.

Unit Three: BIM for Design Coordination and Pre-Construction

- Managing the federated model and design review process.
- Leading effective clash detection and resolution meetings.
- Implementing model-based constructability reviews.
- Introduction to 4D BIM for visual schedule simulation.
- Fundamentals of 5D BIM for model-based cost estimation.
- Validating design against project requirements and codes.
- Coordinating multidisciplinary design inputs.

Unit Four: Managing BIM during Construction and Handover

- Utilizing BIM for site logistics and safety planning (4D).
- Monitoring construction progress against the BIM model.
- BIM for quality assurance and quality control (QA/QC).
- Managing requests for information (RFIs) and submittals in a BIM workflow.
- As-built modeling processes and requirements.
- Understanding and managing COBie data for asset management.
- The project manager's role in the project handover process.

Unit Five: Advanced BIM Management and Future Trends

- Introduction to Digital Twins and their lifecycle value.
- Leveraging BIM for sustainable design and performance analysis.
- Integrating Lean Construction principles with BIM workflows.
- BIM data analytics for project performance insights.
- Automating workflows and processes.
- The future of BIM.
- Developing a continuous improvement plan for BIM implementation.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

As digital twins become more prevalent, how does the project manager's role evolve from overseeing construction to managing a lifelong digital asset?

What unique qualities does this course offer compared to other courses?

This course distinguishes itself by focusing squarely on the strategic and managerial dimensions of Building Information Modeling, rather than on the technical operation of specific software. While many courses teach how to use BIM tools, this program teaches project managers how to lead with them. Its core philosophy is that BIM's greatest value is unlocked through effective management, process integration, and strategic planning. The curriculum is built around the internationally recognized ISO 19650 standard, providing a robust framework for information management that is globally relevant. We emphasize a holistic, lifecycle approach, connecting BIM's role from initial design and pre-construction analysis through to construction execution and, critically, the handover of valuable data for facility management and operations. The content is designed to cultivate leadership skills, enabling participants to drive organizational change, mitigate project risks through data-driven insights, and communicate the value of BIM to all stakeholders. It is an advanced course for professionals seeking to master the 'why' and 'how' of BIM implementation, not just the 'what'.