



STRATEGIC DIGITAL TRANSFORMATION IN CONSTRUCTION TRAINING COURSE

19 - 23 OCT 2026

ROME

5800 € (PER PERSON)

REF: #CON1493_61534



COURSE INTRODUCTION / OVERVIEW:

This training course is designed to equip construction professionals, project managers, and senior executives with the strategic and technical skills needed to successfully navigate and lead digital transformation in the construction industry. The adoption of new technologies is no longer optional but is a critical driver for improving efficiency, safety, and profitability. This program, offered by BIG BEN Training Center, provides a comprehensive framework for understanding the core principles of digital construction, from various technology applications and data management to change management and strategic implementation. We will explore key concepts such as Building Information Modeling (BIM), smart construction, and the use of drones and robotics. The curriculum is informed by the academic work of authors like Bilal Succar, whose articles and research provide a foundational and detailed understanding of the principles behind effective technological integration. This course goes beyond a simple overview of technology to provide a deep understanding of how to implement real-world solutions that ensure operational efficiency, competitive advantage, and long-term growth. We prepare participants to be leaders who can build more efficient and innovative construction initiatives.

TARGET AUDIENCE / THIS TRAINING COURSE IS SUITABLE FOR:

- Construction project managers.
- Senior executives and directors.
- IT and technology managers.
- Civil engineers.
- Site managers.
- Strategic planners.
- Quality assurance professionals.
- Government agencies and equivalents.



TARGET SECTORS AND INDUSTRIES:

- Construction.
- Real Estate Development.
- Architecture and Engineering.
- Infrastructure.
- Technology and Software.
- Manufacturing of building materials.
- Consulting.
- Government and public administration agencies.

TARGET ORGANIZATIONS DEPARTMENTS:

- Project Management Office (PMO).
- Strategic Planning.
- IT and Technology.
- Operations.
- Engineering.
- Business Development.
- Finance.
- Procurement.



COURSE OFFERINGS:

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

- Develop a strategic roadmap for digital transformation.
- Implement Building Information Modeling (BIM) workflows.
- Leverage data analytics for decision-making.
- Integrate smart construction technologies.
- Manage change management within an organization.
- Ensure cybersecurity on digital projects.
- Utilize mobile applications and platforms.
- Measure the ROI of technology investments.

COURSE METHODOLOGY:

This training course uses a highly practical and case-study driven methodology. The program is built on real-world examples of successful digital transformation initiatives in the construction industry. Participants will work in teams to develop a complete digital strategy for a hypothetical construction firm, applying the tools and frameworks learned in the course. We will use interactive workshops to practice skills like data analysis and technology adoption. The curriculum is designed to be a collaborative experience where participants can share their unique challenges and innovative solutions. Our trainers, with extensive experience in the field, will provide direct feedback and guidance throughout the course. BIG BEN Training Center is committed to providing a dynamic and practical learning environment, ensuring that participants leave with the skills and confidence to effectively lead digital change.



COURSE AGENDA (COURSE UNITS):

UNIT ONE: FOUNDATIONS OF DIGITAL TRANSFORMATION

- The business case for digital transformation.
- Key technologies in construction: BIM, IoT, AI.
- Understanding the digital maturity model.
- Data management and governance.
- The impact on operational efficiency.
- Strategic planning for change.
- Case studies in digital success.

UNIT TWO: BUILDING INFORMATION MODELING (BIM)

- Introduction to Building Information Modeling (BIM).
- BIM for design and coordination.
- BIM for project management.
- BIM for facility management.
- Developing a BIM execution plan.
- BIM standards and protocols.
- The future of BIM.

UNIT THREE: SMART CONSTRUCTION AND ON-SITE TECHNOLOGY

- The rise of smart construction.
- IoT sensors and real-time data.
- The use of drones for site monitoring.
- Robotics and automation.
- Mobile applications for the field.
- Wearable technology for safety.
- Site logistics and technology.



UNIT FOUR: DATA, ANALYTICS, AND BUSINESS INTELLIGENCE

- Leveraging data analytics for insights.
- Creating a data-driven culture.
- Predictive analytics for projects.
- Business intelligence dashboards.
- Artificial intelligence (AI) in construction.
- The role of the digital twin.
- Cybersecurity for project data.

UNIT FIVE: IMPLEMENTATION AND STRATEGIC LEADERSHIP

- Developing a digital roadmap.
- Change management strategies.
- Training and upskilling the workforce.
- Measuring the ROI of technology investments.
- Strategic leadership for innovation.
- The future of the construction industry.
- Building a culture of innovation.

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:

How can a deeper understanding of digital transformation empower construction professionals to move beyond traditional methods and become strategic leaders in creating more efficient, profitable, and sustainable projects for the future?

WHAT UNIQUE QUALITIES DOES THIS COURSE OFFER COMPARED TO OTHER COURSES?

This training course is unique because it provides a dedicated, strategic focus on digital transformation in construction. While other programs may cover general technology, our curriculum is designed to empower professionals with the specific skills needed to address the unique challenges of the construction industry, from implementing Building Information Modeling (BIM) to managing data on-site. The program is a hands-on experience, with exercises that directly simulate the challenges and decisions involved in a real-world digital strategy or technology rollout. We go beyond theoretical concepts to provide a clear, actionable roadmap for balancing the demands of a complex project with the imperative of adopting innovative tools and practices. This course is for professionals who want to lead their organizations toward a more efficient, profitable, and innovative future.