€TRAINING

Building Information Modelling BIM

24 - 28 February 2025
Kuala Lumpur (Malaysia)

Building Information Modelling BIM

REF: G2503 DATE: 24 - 28 February 2025 Venue: Kuala Lumpur (Malaysia) - Fee: 5850 Euro

Introduction:

Building Information Modelling BIM is a digital process that integrates design, construction, and operation data into a shared platform. It enhances collaboration, improves project efficiency, and supports informed decision-making throughout the building lifecycle. This training program offers participants the opportunity to learn how to utilize advanced digital tools and methodologies for enhanced construction project management. It empowers them with the skills needed to optimize project efficiency, collaboration, and decision-making within the construction industry.

Program Objectives:

At the end of this program, participants will be able to:

- Explore the fundamentals of Building Information Modelling BIM and its evolution in the construction industry.
- Plan and perform BIM workflows, including the creation of BIM Execution Plans BEP and project setups.
- Use BIM software to create 3D models, manage parametric modeling, and resolve clashes effectively.
- Use BIM for construction management, including sequencing, cost estimation, and construction coordination.
- Utilize BIM for facility management, sustainability assessments, and integrating BIM across the project lifecycle.

Targeted Audience:

- Architects.
- Engineers Civil, Structural, Mechanical, Electrical.
- Construction Managers and Project Managers.
- BIM Coordinators and Technicians.
- Facility Managers.
- Design and Construction Professionals looking to integrate BIM into their workflow.

Program Outline:

Unit 1:

Introduction to BIM:

- Understanding the fundamentals of Building Information Modelling BIM.
- Evolution and benefits of BIM in the construction industry.
- Overview of BIM software and tools.
- Introduction to BIM standards and protocols.
- Navigating BIM software interface.

Unit 2:

BIM Implementation Strategies:

- Planning and implementation criteria of BIM workflows.
- BIM execution planning BEP and project setup.
- Coordination and collaboration in BIM projects.
- How to manage BIM data and information exchange.

Unit 3:

BIM Modeling Techniques:

- Mechanisms of creating 3D models using BIM software.
- Parametric modeling and family creation.
- Detailing and documentation in BIM.
- Clash detection and resolution.
- Advanced modeling techniques for complex geometries.

Unit 4:

BIM for Construction Management:

- BIM for construction sequencing and scheduling.
- Quantity takeoff and cost estimation using BIM.
- 4D BIM: Integrating time with 3D models.
- BIM for construction coordination and site logistics.

- Construction-oriented BIM applications.

Unit 5:

BIM for Facility Management and Lifecycle Analysis:

- Introduction to Facility Management FM and Asset Information Models AIM.
- Utilizing BIM for facility operations and maintenance.
- BIM for energy analysis and sustainability assessment.
- BIM in renovation and retrofit projects.
- Strategies for BIM integration across project lifecycle.