ISO 19650 BIM Information Management and Compliance Training Course



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4100 € (Per Person)

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Course Introduction / Overview:

This comprehensive training course provides a deep dive into the ISO 19650 series of standards, the international benchmark for managing information over the whole life cycle of a built asset using building information modelling (BIM). In an era where digital construction and collaborative workflows are paramount, mastering these standards is no longer optional but essential for professionals in the Architecture, Engineering, and Construction (AEC) industry. The course demystifies the concepts and processes outlined in ISO 19650, from initial information requirements to the operational phase of an asset. Drawing upon the foundational principles discussed by experts like Dr. Marzia Bolpagni, the curriculum emphasizes a practical, implementation-focused approach. Participants will explore the entire information management process, including the setup and management of a Common Data Environment (CDE), the development of a BIM Execution Plan (BEP), and ensuring compliance throughout the project lifecycle. BIG BEN Training Center has designed this program to bridge the gap between theoretical knowledge and real-world application, ensuring delegates can confidently implement ISO 19650 principles to improve project outcomes, reduce risk, and enhance collaboration. This course is your definitive guide to navigating the complexities of modern information management in the built environment.

Target Audience / This training course is suitable for:

- Architects and Architectural Technologists.
- Structural and Civil Engineers.
- MEP Engineers and Designers.
- BIM Managers and Coordinators.
- Project Managers and Construction Managers.
- Information Managers.
- Asset and Facility Managers.
- Quantity Surveyors and Cost Consultants.
- Clients and Asset Owners.
- Contractors and Subcontractors.
- Quality Assurance and Control Managers.

Target Sectors and Industries:

- Architecture and Design Services.
- Engineering and Consulting Firms.
- Construction and Contracting Companies.
- Real Estate and Property Development.
- Infrastructure and Transportation.
- Oil and Gas Sector.
- Governmental bodies and Public Works Agencies.
- Facility and Asset Management Services.
- Manufacturing and Prefabrication.
- Utilities and Energy Sector.

Target Organizations Departments:

- Project Management Office (PMO).
- Design and Engineering Departments.
- Construction and Site Operations.
- Digital Innovation and BIM Departments.
- Tendering and Procurement.
- Asset Management and Operations.
- Quality Assurance and Compliance.
- Information Technology (IT).
- Planning and Development.
- Contracts and Legal Departments.

Course Offerings:

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

- Articulate the core principles and terminology of the ISO 19650 series.
- Develop and define organizational, asset, and project information requirements (OIR, AIR, PIR).
- Establish and manage a compliant Common Data Environment (CDE) workflow.

- Create a comprehensive BIM Execution Plan (BEP) in response to information requirements.
- Implement robust quality assurance and control checks for information models.
- Understand the roles, responsibilities, and competencies for information management.
- Manage the production and delivery of information containers effectively.
- Apply risk management strategies related to information delivery.
- Conduct compliance audits to ensure adherence to ISO 19650 standards.
- Integrate ISO 19650 principles with existing project and asset management processes.
- Navigate the information security requirements outlined in ISO 19650-5.
- Prepare for the transition of project information to an Asset Information Model (AIM).

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be immersive, interactive, and highly practical, ensuring that participants not only learn the theory but can also apply it effectively in their professional roles. This course moves beyond traditional lectures by incorporating a blend of expert-led instruction, real-world case studies, and collaborative group workshops. Participants will engage in hands-on exercises that simulate the creation of key documents like the BIM Execution Plan and the Master Information Delivery Plan. Interactive sessions will encourage peer-to-peer learning and the sharing of diverse industry experiences. We will analyze successful and unsuccessful project scenarios to understand the practical implications of ISO 19650 compliance and non-compliance. The facilitator will provide continuous feedback and guide participants through complex problem-solving activities related to CDE workflows and information exchange protocols. This dynamic learning environment, championed by BIG BEN Training Center, ensures that every delegate leaves with the confidence and competence to implement a robust information management strategy within their organization, driving efficiency and collaboration across the entire asset lifecycle.

Course Agenda (Course Units):

Unit One: Fundamentals of ISO 19650 and Information Management

- Introduction to the ISO 19650 series and its global context.
- Key concepts, principles, and terminology.
- Transitioning from PAS 1192 to ISO 19650.
- The business case for structured information management.
- Overview of the asset and project lifecycle.
- Understanding Project Information Model (PIM) and Asset Information Model (AIM).
- The role of national annexes and regional standards.

Unit Two: The Common Data Environment (CDE) in Practice

- Defining the Common Data Environment (CDE) concept.
- The CDE workflow: Work in Progress, Shared, Published, and Archived states.
- Assigning metadata, revision, and status codes.
- Implementing a CDE solution and information container management.
- Practical exercises in navigating a CDE.
- Collaborative workflows and information exchange protocols.
- Ensuring data integrity and version control within the CDE.

Unit Three: Information Requirements and Planning

- Defining Information Requirements (OIR, AIR, PIR, EIR).
- The appointment process: Tendering and award.
- Roles and responsibilities: Appointing Party and Lead Appointed Party.
- Developing the project's information standard and production methods.
- Creating the Responsibility Matrix and Task Information Delivery Plans (TIDP).
- Compiling the Master Information Delivery Plan (MIDP).
- Risk assessment for information delivery.

Unit Four: Developing the BIM Execution Plan (BEP)

- The purpose and structure of a BIM Execution Plan.
- Pre-appointment BEP vs. Post-appointment BEP.
- Responding to Exchange Information Requirements (EIR).
- Defining project goals, uses, and deliverables.
- Establishing federation strategy and model breakdown structure.
- Detailing quality assurance and control procedures.
- Workshop: Drafting key sections of a BEP.

Unit Five: Compliance, Security, and Lifecycle Integration

- Information model review and verification processes.
- Conducting compliance checks and audits.
- Introduction to ISO 19650-3: The Operational Phase.
- Managing the Asset Information Model (AIM).
- Information security principles according to ISO 19650-5.
- Future trends: Digital twins, IoT, and data analytics integration.
- Developing an organizational implementation and change management strategy.

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 might the information management principles of ISO 19650 need to evolve to support real-time, dynamic data environments?

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

This course distinguishes itself by moving beyond a purely theoretical recitation of the ISO 19650 standards and focusing intensely on practical, actionable implementation strategies. While many courses explain what the standard says, our curriculum is built around the "how" and "why," using a series of integrated case studies that follow a project from inception to handover. This narrative approach allows participants to see the direct consequences of information management decisions at each stage of the asset lifecycle. We emphasize the development of critical thinking skills needed to adapt the ISO framework to unique project constraints and organizational cultures, rather than promoting a rigid, one-size-fits-all solution. The content is structured to foster a deep understanding of the collaborative workflows and communication protocols that are the true foundation of successful BIM implementation. Furthermore, the course delves into the often-overlooked aspects of information security and the strategic transition from project-centric data to long-term asset management, providing a holistic perspective that is crucial for delivering whole-life value. It is an academic and practical immersion into the ecosystem of modern digital construction.