Construction Operation Building Information Exchange (COBie)

Course Objective

The Construction Operations Building Information Exchange (COBie) is a standard data format for the publication of a subset of building model information focused on delivering asset data as distinct from geometric information. Here's a comprehensive list of objectives for a COBie course:

- Understand the fundamentals and significance of COBie in BIM.
- Learn COBie standards, compliance, and integration with ISO 16739 (IFC).
- Master data collection and management techniques for COBie.
- Gain proficiency in using software tools for COBie data generation and validation.
- Comprehend the application of COBie in various project phases: design, construction, handover, and operations.
- Develop skills to create and manage COBie deliverables.
- Perform quality control and assurance on COBie data.
- Explore the role of COBie in facility management.
- Study practical applications and case studies of COBie.
- Understand future trends and developments in COBie and BIM.

Course Outcome

- Grasp the principles and importance of COBie in BIM processes.
- Effectively collect, manage, and deliver COBie-compliant data.
- Utilize BIM software tools for COBie deliverables.
- Implement COBie standards in different project phases.
- Apply best practices for quality control and assurance in COBie data.
- Leverage COBie for enhanced facility management and operational efficiency.

Course Duration

- Total Duration: 12 hours (6 hours lecture + 6 hours hands-on practice)
- Daily Schedule: 1 hours per day
- Duration: 1 weeks

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Topics to be Covered

Module 1: Introduction to COBie

- Overview of COBie
- Significance of COBie in BIM
- COBie standards and compliance (ISO 16739 - IFC)

Module 2: Data Collection and Management

- Techniques for accurate data collection
- Lifecycle of data in COBie: design, construction, operations, and maintenance

Module 3: Software Tools and Implementation

- Introduction to COBie-supporting software tools (Revit, Navisworks, etc.)
- Configuring and using tools for COBie data generation and validation

Module 4: COBie in Project Phases

- Application of COBie in design, construction, handover, and operations
- Integrating COBie into project workflows

Module 5: Creating and Managing COBie Deliverables

- Creating COBie-compliant deliverables
- Roles and responsibilities in COBie data delivery

Module 6: Quality Control and Assurance

- Performing quality control and assurance on COBie data
- Methods to validate and verify COBie deliverables

Module 7: COBie for Facility Management

- Role of COBie in facility management
- Supporting asset management, maintenance planning, and operational efficiency with COBie data

Module 8: Practical Applications and Case Studies

- Real-world examples and case studies of COBie implementation
- Best practices and lessons learned from industry leaders

Module 9: Future Trends and Developments

- Future of COBie and integration with emerging technologies (IoT, AI, digital twins)
- Ongoing developments in BIM standards and their impact on COBie

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