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BIM MANAGEMENT AND CERTIFICATION TRAINING

BIM Courses

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BIM and Digital Construction Fundamentals Professional Certification **1 Day**

COURSE DESCRIPTION

This training course is designed to teach you the fundamentals of BIM, Virtual Digital Construction (VDC) and the basic principles included in delivering an ISO19650 based BIM project. You will gain a good understanding of BIM and digital construction principles, technologies and project requirements.

This course is ideally suited for executives, managers and employees who need to understand BIM, but are not necessarily working on individual projects.

COURSE MODULES

- Principles of Digital Construction
- Overview of Standards and Guidelines
- BIM Application Use Cases
- BIM Implementation Strategy
- Information Production and Exchange (including CDE)
- Exchange Information Requirements
- BIM Execution Plan
- Contractual BIM

OTHER INFORMATION

Prerequisites

Some exposure to 3D modelling would be beneficial.

Course Duration

1 Day

Next Steps

buildingSMART BIM Management or COBie/IFC Courses

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buildingSMART Information Management Professional Certification (Foundation) 4 Days

COURSE DESCRIPTION

On the buildingSMART BIM Management Professional Certification course your staff will learn how to create quality data during capital delivery, which can be used to greater effect during the operational phase of the asset. Students sitting this course are eligible to take the buildingSMART Professional Certification exam, gaining an internationally recognised qualification. It draws its core content from the ISO19650 standards and the UK BIM Framework and offers a comprehensive grounding in how to approach digital construction projects across all disciplines including those involved in the design, build and operational handover.

COURSE MODULES

- Basic Principles
- Standards and Guidelines (ISO19650 and UK BIM Framework)
- Implementation Strategy
- Application Use Cases
- COBie Deliverables and Classification
- Exchange Information Requirements
- Common Data Environments
- Security, Health and Safety
- Information Protocol
- BIM Execution Plan
- Interoperability
- OpenBIM and Support Communities
- IFC Demystified and IFC Format
- Preparing for and Taking Your Exam

OTHER INFORMATION

Prerequisites

Basic understanding of the principles of BIM and some exposure to 3D modelling is desirable.

Course Duration

4 Days

Next Steps

COBie/IFC Courses

buildingSMART
Professional Certification

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COBie Fundamentals Certification **1 Day**

COURSE DESCRIPTION

This training course will provide you with a fundamental understanding of COBie, and its use in BIM project environments. The course covers the detailed schemas and structure, as well as how they can be applied to digital projects.

It also explores how COBie is used in your BIM Workflows, their role in the lifecycle of the built asset and provides a hands-on approach to how they work. If you need to specify, create, update, use or check files for clashes/correct COBie data, you will benefit from this course.

COURSE MODULES

- Principles of BIM
- Introduction to COBie
- COBie Demystified
- The COBie Format
- The COBie Deliverables
- Delivering COBie using IFC
- COBie Toolkit using Autodesk Revit
- COBie Data Checks and QC Reporting

OTHER INFORMATION

Prerequisites

Some exposure to 3D modelling tools would be advantageous.

Course Duration

1 Day

Next Steps

IFC Fundamentals or a Bespoke BIM Course

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IFC Fundamentals Certification **1 Day**

COURSE DESCRIPTION

This training course will provide you with a fundamental understanding of IFC, and its use in BIM project environments. The course covers the detailed schemas and structure, as well as how they can be applied to digital projects.

It also explores how IFC is used in your BIM Workflows, their role in the lifecycle to the built asset and provides a hands-on approach to how they work. If you need to specify, create, update, use or check files for clashes/correct IFC data, you will benefit from the course.

COURSE MODULES

- Principles of BIM
- IFC Demystified
- The IFC Format
- Delivering COBie using IFC
- IFC Exports and Associated Options

OTHER INFORMATION

Prerequisites

Some exposure to 3D modelling or clash detection tools would be advantageous.

Course Duration

1 Day

Next Steps

COBie Fundamentals or a Bespoke BIM Course

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COBie and IFC Hands on Workshop **1 Day**

COURSE DESCRIPTION

This course is for students wishing to get some basic hands-on experience in the implementation of IFC and COBie using Autodesk Revit. Most of the theory is assumed and this course very much focuses on the application use and how to create high quality IFC and COBie outputs.

COURSE MODULES

- COBie Property Set Compliance
- Model Preparation
- Uniclass Classification in Autodesk Revit
- COBie Extension using Autodesk Revit
- COBie Data Checks (Revit Model Checker)
- COBie to UK Standards (Leveraging Dynamo Scripts Introduction)
- IFC Creation using Revit Exports - 'Add in Tool'
- Model View Definition Application
- IFC Export Customisation
- Component Handling in IFC
- Property Set Handling in IFC

OTHER INFORMATION

Prerequisites

Understanding of Revit and Navisworks is required. A good understanding of COBie and IFC Formats is beneficial.

Course Duration

1 Day

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A Bespoke BIM Course

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