

BSI BIM Master Classes

These engaging and interactive BSI BIM Master classes will provide delegates with a unique opportunity to gain knowledge and experience in regards to implementing BIM standards. These BIM publications enable you to improve your processes, support the collaborative working and share structured data within contractual relationships and the open market.



How will I benefit?

- Receive practical guidance on how to implement processes and principles behind PAS 1192-2
- Gain familiarity with PAS 1192:2, the methodology used for managing the production, distribution and quality of construction information, and the key terms and definitions
- Comprehend the management of information within a Common Data Environment
- Understand what PAS 1192-3 really means for you and your organization
- Appreciate how information management can help deliver effective asset information and asset management
- Explore how PAS 1192-3 can be applied to the assets you are responsible for
- Exchange knowledge and understanding with the lead author of the PAS 1192-3.
- Learn how COBie will influence different aspects of your work
- Grasp the general concepts of COBie that involve all individuals in the life cycle of an asset
- Apply a practical approach to see how COBie works



Who should attend?

The BIM master classes are designed for anyone with responsibility for managing built assets of information management at BIM Level 2 to improve the cost and operational effectiveness of their asset management function. They are also designed for those in a supply chain who are being asked, or expect to be asked, to manage and supply asset information in accordance with BIM Level 2 including:

- CEOs and Managing Directors
- Structural Engineers
- Contractors
- Manufacturers
- Architects
- Building Services Engineers
- Designers
- BIM Managers
- Information Managers
- Technical Managers
- Business Managers
- Managing Directors
- Operations Directors
- Construction product manufacturers

BSI Training Academy

Highly practical and interactive BSI BIM Master classes will cover the following topics:

- DAY 1 – Information management for the capital/delivery phase of construction projects (PAS 1192:2)
- DAY 2 – Information management for the operational phase of assets (PAS 1192:3)
- DAY 3 – Fulfilling employer's information exchange requirements using COBie (BS1192:4)

Using BIM to manage projects: Putting PAS 1192-2 into practice

Day 1

PAS 1192-2:2013 is part of the UK Government definition of BIM Level 2, and is part of the requirement to use digital information on all projects from 2016.

This 1-day training course is presented by an author of PAS 1192-2. It has been designed to help all those involved in projects (clients, designers, contractors, specialists and suppliers) to understand the requirements of PAS 1192-2 and put it into practice.



What will I learn?

- Understand what PAS 1192-2 really means for you and your organization
- Understand how information management can help deliver better project information



How will I benefit?

- Exchange knowledge and understanding with like-minded professionals and with the lead author of this key document.
- Exchange knowledge and understanding with one of the authors of PAS 1192-2



Who should attend?

This course is designed for anyone with responsibility for commissioning construction projects and who wants to use the opportunity of information management at BIM Level 2 to improve the cost and operational effectiveness of their project management function. It is also designed for those in the supply chain who are being asked, or expect to be asked, to design and construct projects in accordance with BIM Level 2.

Topics

- Session 1: Overview of PAS 1192-2
 - The structure of the PAS
 - The concepts and principles in the PAS.
- Session 2: The information management process from BS 1192:2007
 - The Common Data Environment and the processes around it
 - The standard method and procedure for managing information including file naming and classification.
- Session 3: The information delivery cycle in PAS 1192-2: setting requirements
 - The cycle of procuring information alongside design and construction
 - Plain Language Questions and Employers Information Requirements – high-level and contractual information needs
 - Practical exercise.
- Session 4: The information delivery cycle in PAS 1192-2: the supply chain response
 - The BIM Execution Plan, pre-contract and post-award
 - Assessing supplier capability to deliver information to BIM Level 2
 - Detailed information delivery planning for projects.
- Session 5: Managing information during design and construction
 - The Common Data Environment and the workflows that support it
 - Identifying the permitted uses of information
 - Version control.
- Session 6: Roles and responsibilities
 - Client roles and responsibilities
 - Supply chain roles and responsibilities.
- Session 7: Project information requirements exercise

Using BIM to manage assets: Putting PAS 1192-3 into practice

Day 2

Building information modelling is mainly thought of as a process to improve the delivery of construction projects, there are also massive benefit opportunities from using BIM as part of the asset management process. Indeed, some would argue that the benefits for asset management are even greater than for project management.

PAS 1192-3:2014 is part of the UK Government definition of BIM Level 2, and is part of the requirement to use digital information on all projects by 2016.



What will I learn?

- Deriving information requirements from the asset management strategy and plans
- The Common Data Environment, incorporating work-in-progress, shared information, published information and the archive
- Responsibilities of the asset owner or operator



How will I benefit?

This 1-day training course is presented by a lead author of PAS 1192-3, it has been designed to help all types of asset owners, operators and maintainers to put the requirements of PAS 1192-3 into practice.



Who should attend?

This course is designed for anyone with responsibility for managing built assets who want to use information management at BIM Level 2 to improve the cost and operational effectiveness of their asset management function. It is designed for those in the supply chain who are being asked, or expect to be asked, to manage and supply asset information in accordance with BIM Level 2.

Topics

- Session 1: the importance of asset management and the role of information management
 - The nature of built assets and the pipeline of new or refurbished assets
 - The scope for improvement in quality and certainty of delivery of projects.
- Session 2: Setting information requirements for existing assets
 - Deriving information requirements from the asset management strategy and plans
 - Defining events during the asset lifecycle that trigger the information management process
 - Using Organizational Information Requirements and Asset Information Requirements to convey strategic and contractual needs
- Session 3: Storing asset information
 - Using the Asset Information Model to store data and information
 - Creating and maintaining the Asset Information Model
 - Linking the information management process to existing enterprise systems such as CAFM, finance or data acquisition systems
- Session 4: The Common Data Environment in asset management
 - Enabling collaborative working between client, designers, contractors and asset managers
 - The Common Data Environment, incorporating work-in-progress, shared information, published information and the archive
 - Bringing information into the Common Data Environment
 - The gateways within the Common Data Environment to approve and validate information
 - Exploring the detailed process for accepting asset information from a new-build project.
- Session 5: Roles and responsibilities during asset information management
 - Responsibilities of the asset owner or operator
 - Responsibilities of the operational supply chain (in-house works teams, outsourced maintenance contractors, surveyors and consultants).
- Session 6: Applying the information management process to an existing asset
 - Discussion and key points for implementation.

COBie2 Master class

Day 3

COBie is a data schema for holding and transmitting information through to handover to support the client's ownership and operation of a facility. The format of COBie is that it is a subset of IFC that can be represented in a spreadsheet or in a relational database. One advantage of COBie is that it accommodates any unstructured input and any BIM information into a structured single-entry format. The final COBie can be exported in a variety of output formats or read directly into asset management and facility management.

Increasingly individuals in the construction industry wishing to participate in public projects post will be expected to be confident and capable with Building Information Modeling. In order to meet this objective, stepping stones have been put in place. One of these stepping stones is the contractual demand for COBie.



What will I learn?

- The problem of documents vs data
- Consultants develop the spatial and physical systems
- Push and pull strategy
- How COBie can change the running of a business; changing the exchange of information (recorded) at a management level



How will I benefit?

The course provides a broad understanding of COBie, key information is presented on how COBie will influence different aspects of your work and an overview of general concepts of COBie that involve all individuals in the life cycle of an asset. Takes a hands-on approach to see how COBie works.



Who should attend?

This training is primarily aimed for a UK audience. The audience for this document is any project team member who wants to understand what information is required by COBie and who is responsible to provide it. The course covers strategic considerations, management and implementation

Topics

- Introduction: What is COBie for?
 - The problem of documents vs data
 - Previous attempts to improve handover
 - Continuity
- Session 1: The concept of shared structured information.
 - Client may know about spaces and equipment at briefing stage
 - Consultants develop the spatial and physical systems
 - Contractor instantiate the design
 - Commissioning and suppliers provide extra information
- Session 2: How it fits in with the government's plan for BIM. The building blocks of COBie
 - The Government hypothesis
 - Criteria and the role of open standards
 - Push and pull strategy
 - Better client, better owner
 - Business pipeline: comparability and improvement
- Session 3 - Identifying data for COBie
 - The value of COBie to the client/owner and the supply chain.
 - Consistent
 - Checkable
 - Evolving

Session 4 - Working with COBie

- Manual or automatic tools ?
- Relevant information
- Irrelevant information
- Product data

Session 5 – Strategy and quality.

- How COBie can change the running of a business; changing the exchange of information (recorded) at a management level
- Use of process maps and exchange requirements

Session 6 - Case study and discussion of owners objectives

- Review of an example COBie file
- Strategic objectives and PAS1192
- How COBie can be tailored to supply owners with personalised outputs for handover; examples
- Required fields and additional columns
- Classification

Session 7 - Watch points for COBie. Working with BIM.

- Who provides what information for COBie
- Sharing
- delegation
- coordination
- Too much or too little?

Our knowledge

We don't just train you to meet standards – we create them. As the world's first National Standards Body and a founding member of ISO, no one knows standards like BSI. Our expert knowledge means a lot and when you train with us, you benefit from this expertise.

Our tutors

Our tutors are the best in the business. As experienced assessors, they'll transfer the knowledge you need to embed standards into your organization and develop them through continual improvement.

Our approach

Our high impact accelerated learning approach is proven to fast-track learning by improving knowledge retention and skill application. This course is activity based, resulting in a deeper understanding of material and greater impact on job performance.

Your expertise

Our training courses will give you the knowledge and skills to embed the standards that matter to you the most. To promote your professional development, you'll receive a personalized BSI Training Academy certificate that's recognized worldwide.

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