



# Building Information Modelling (BIM) Fundamentals - International



Your partner  
in progress



## Course descriptive

This course will provide you with an understanding of why 'Collaborative BIM' has been adopted as a UK Government requirement and how Building Information Modelling (BIM) supports Lean principles to reduce waste in construction and asset management. This course will provide an overview of the standards that define UK BIM Implementation and the fundamental processes of a Common Data Environment (CDE).

It will also help you understand 'BIM according to ISO 19650' – the new international standard (Part 1 and 2) and 'UK BIM Implementation' from the perspective of clients and customers. The role of information in managing assets and projects more efficiently and the tools defined for this.

In addition, you'll understand 'BIM according to BS EN ISO 19650' and 'UK BIM Implementation' from the perspective of designers, constructors and supply chain. Responding to the client's exchange information requirements (EIR). Tools used in the supply chain to manage and exchange information (CDE, COBie, IFC).

The course will help you to put UK BIM Implementation into the broader context of information security, roles and responsibilities. You'll reflect on the impact of delivery for your organization and what next steps need to be taken.

## Pedagogical objectives

This course will help you:

- Understand the rationale behind UK BIM Implementation and to put this into the context of your own organization
- Understand the range of standards, tools and other documents that define and are used to implement UK BIM Implementation
- Understand how 'BIM according to ISO 19650' and 'UK BIM Implementation' helps asset owners manage asset information more effectively and helps project sponsors and project managers deliver better projects (commercially and technically)
- Understand how all types of suppliers (designers, constructors, specialists, asset contractors) respond to client requirements in UK BIM Implementation, and what technical tools exist to support this, including COBie and IFC
- See how 'BIM according to ISO 19650' and 'UK BIM Implementation' provides a framework for better information security
- Understand the roles and responsibilities associated with 'BIM according to ISO 19650' and 'UK BIM Implementation'
- Understand what next steps you need to take to be able to manage assets or deliver projects following the UK BIM Implementation



## Skills to be acquired

Upon completion of this training, delegates will be able to:

- Identify the basic principles of BIM
- Describe the terms "BIM according to ISO 19650" and "UK BIM framework"
- Explain the value of information throughout all stages of a project and asset lifecycle
- Discuss why BIM is a key factor in delivering projects on time while minimizing waste and inefficiencies
- Define and explain key terminology relating to BIM
- Recall the definition of BIM and explain its importance
- Interpret how to apply the standards that support the "UK BIM framework" in practice
- Summarize the general concept of the "Information Delivery Cycle" as outlined in ISO 19650-1

## Targeted audience

Anyone adopting UK BIM Implementation into their organization, their own work practices, or helping their clients or supply chains to adopt it. Construction and asset management professionals (project managers, asset managers, designers, constructors, manufacturers, maintenance contractors, information managers).

## Prerequisites

There are no formal prerequisites. Delegates may wish to undertake the BIM Awareness On-demand course prior to attending this training course for a basic understanding of BIM.



## Duration

2 days – 14 hours

## Pedagogical, technical and framing means

Course materials including:

- Introduction to the training, detailed program and security assignments
- Course presentation, theory and activities/ role plays
- Answers to the activities
- Videos
- Additional documents, distributed during the sessions, to use for the activities
- Attendance sheet to be signed

## Assessment specifics

- Questionnaire to assess the knowledge at the end of the training
- Customer survey

## What is included?

- Course materials, provided electronically
- Letter of attestation
- Official certificate



## Agenda – Day 1

| Time  | Subject   |
|-------|---|
| 09:00 | Welcome, course structure and agenda                            |
|       | Introductions and learning objectives                           |
|       | Why is BIM an important topic for the built environment sector? |
|       | BIM and collaborative working                                   |
|       | Why is data and information wanted?                             |
|       | Building the team   |
|       | How is information demanded?                                    |
| 17:00 | Project information standards and procedures                    |
|       | Review of Day 1   |

## Day 2

| Time  | Subject   |
|-------|---|
| 09:00 | Refresh of day 1 topics                               |
|       | How to respond to information requirements            |
|       | Starting an appointment                               |
|       | Producing open information and exchanging information |
|       | Level of information need ISO 19650-1 Clause 11.2     |
|       | Security and BIM                                      |
|       | Roles and responsibilities                            |
|       | Common processes for putting BIM into practice        |
| 16:00 | Planning and managing change                          |
|       | Course summary, reflection and review                 |
| 16:00 | Wrap-up, feedback, Q&A                                |



\*These training modules are eligible to the subsidizing by the public institutions in France (OPCO).

\*\*Each delegate receives a training convention after the enrollment.

\*\*\*Please note that for the public sessions, you have until 48h before the start of the course to confirm your enrollment. For the in-house sessions, the deadline would be of two weeks prior to the start of the course.

\*\*\*\*Should you be in a disabled situation, please contact us and indicate what details should be taken into account.

You can contact us on [training.france@bsigroup.com](mailto:training.france@bsigroup.com) or **01 89 79 00 40**.