



Certificate in Building Information Modelling

Duration: **7 Months Distance Learning Programme**

Language: **English**

RICS Member: **£1,139+ VAT**

Non RICS Member **£1,359 + VAT**

Course Summary

A BIM project manager has a critical role when advising clients, internal and external stakeholders about the benefits of BIM – how, when and where BIM can contribute to the project outcomes and then have the skills and knowledge to manage the project. The BIM manager is required to understand the BIM process, create the project environment in which BIM can work effectively: they set the outcomes and process and requirements across the teams. This course will give you the skills and knowledge to manage a BIM project at each stage.

This course is made up of the following 7 technical modules covering the practices and principles of BIM in project management:

Introduction to BIM

- Module 1 Strategy for BIM – Start with the end in mind
 - Module 2 The Employer's Information Requirements
 - Module 3 Choosing the Right Team
 - Module 4 Team Mobilisation
 - Module 5 BIM-enabled Design
 - Module 6 BIM-enabled Construction, Handover and Closeout
 - Module 7 BIM for Operations
- End of Course Exam

Course Contents

Introduction to BIM

- Understand what BIM is and understand the drivers of BIM
- Understand the business case for BIM; its benefits, challenges and adoption issues
- Develop a broad understanding of the UK Government BIM strategy and its key documents and distinguish between international approaches to BIM
- Communicate clearly the key principles of BIM to your peers

Module 1 – Strategy for BIM – Start with the end in mind

- Understand BIM Uses and the requirement for a strategy for BIM
- Understand the Organisational Information Requirements
- Understand the Asset Information Requirements and Asset Information Model
- Produce a high-level BIM briefing paper to your organisation

Module 2 – The Employer’s Information Requirements

- Understand how the client requirements are incorporated the EIR
- Understand the other key BIM documents that have be put into place at the strategic definition stage of a project
- Understand the elements of an EIR and best practice for its development
- Develop, design and structure an EIR.

Module 3 – Choosing the Right Team

- Achieve an awareness of BIM execution plans and maturity models
- Understand the approach for BIM capability assessments
- Understand the other key BIM contractual documents and the effect they have on the procurement route and supplier engagement
- Create a pre-contract award BIM Execution Plan in response to the EIR

Module 4 – Team Mobilisation

- Understand the Master Information Delivery Plan and Task Information Delivery Plans
- Have a deeper understanding of BIM roles and responsibilities
- Understand how different procurement routes affects those roles
- Develop your pre-contract award BEP into a post-contract award BEP

Module 5 – BIM-enabled Design

- Understand the Model Production and Delivery Table / Responsibility Matrix
- Understand model checking procedures
- Understand how BIM information is used by the project delivery team
- Create a Responsibility Matrix aligned to the RIBA Plan of Works detailing Levels of Detail and Information across a project.

Module 6 – BIM-enabled Construction, Handover and Closeout

- Understand the benefits of BIM during construction
- Understand the requirements and process of handing over BIM deliverables at the end of the project
- Structure how to measure performance and success
- Create a handover protocol detailing project close-out procedure and final BIM deliverables

Module 7 – BIM for Operations

- Understand Government Soft Landings
- Understand BIM uses for operation and maintenance
- Have an understanding of FM and CAFM systems
- Create a post-handover report to capture lessons learnt to positively impact on your next BIM project

Course Structure

The course is composed of 7 modules, with an introduction and end of course assessment. Each module will give you a detailed understanding of the topic, blending theory and practice via case studies to test your understanding. The following resources are available within each module.

- Instructional eLearning
- Reading materials
- Case studies and practical exercises.
- Discussion forum
- Live tutor-facilitated consolidation sessions

Instructional e-learning

The instructional e-learning have been created by subject matter experts who specialise in construction management. These resources support your development of technical skills and knowledge covered module.

Reading Materials

Look into the topics covered throughout the course, regarding best practice and key techniques for BIM project management.

Case Studies and Practical Exercises

Case studies within the distance and blended approach assist in bringing the theory to life. Delegates are provided with structured case studies, which will direct them to share their answers with their fellow delegates within the module forum and online live tutor session where their questions and examples can be discussed and supported.

Discussion forums

Forums provide a great opportunity to share information and pose questions you may have related to the topics during the course. Having access to forums will allow you to share best practice and see how others within industry approach challenges.

Live tutor facilitated online classroom sessions

These live tutor sessions, have been designed to consolidate the taught topics and explain some of the key theoretical points in a live environment. Following the live sessions, recordings will be made available online.

End of module quiz

A short quiz tracks how much of the learning has been absorbed and acts as a progress tracker for the learner

End of Course Assessment

You will be assessed through an online examination hosted by the RICS Online Academy. The online examination will take place at the end of the course and you will need to acquire the requisite minimum score to gain your certificate of course completion.

You will be given 2 free attempts to complete the examination over a period of 2 weeks. If you are unsuccessful, you can request further attempts for a fee.