



Certificate in Building Information Modelling (BIM) - Project Management

Duration: **6 Months Distance Learning Programme**
Language: **English**

RICS Member: **£895.00 + VAT**
Non RICS Member **£995.00 + VAT**

Course Summary

Despite the wider industry wanting to use BIM, not all members of the 'project-delivery' network are embracing it and one of the key reasons is a shortage of specialist BIM professionals.

The Certificate in Building Information Modelling Project Management will cover the entire BIM project lifecycle and provide you with detailed knowledge and the skills required in order to manage each step of the project.

BIM is a methodology, a process. A 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 effectively manage a BIM project at each stage. The feature of this course is a simulated BIM project which will run throughout the course to embed practical knowledge at each stage of the BIM project process.

Who is this course for?

Professionals with at least 5 years of experience in managing projects within the built environment including: Quantity Surveyors, Project Managers, Building Surveyors, Asset Managers, Facilities Manager, Architects and Engineers, Cost Engineers, BIM Manager, BIM Coordinator and Construction Project Managers

Course Structure

Delivered over a 6 months programme, this course teaches the practices of BIM Project Management in a module approach. Each individual module teaches a competency required by the profession and using a blended style of online study, delegates will gain a thorough grounding of the required skills.

Each module is composed of the following to support and enhance the learners needs in gaining the required level of knowledge throughout the course programme.

- Interactive Videos
- Online Technical E-Learning
- Topic related training material
- Reading Material
- Online forum for tutor and delegates
- Live virtual consolidation sessions

Online Technical E-Learning

The online technical e-learning courses provide you with a detailed overview of the principles and methodologies covered within each unit. Created by highly experienced trainers

Case Studies and Practical Exercises

Technical case studies provide you with examples of practice, within these case studies you will be able to test the training against the theory taught within the unit. Answers and your examples can be shared within the online forums.

Reading Material

Further your study and understanding of the units and methodologies with the unit reading material. Sourced from text books and articles, these readings support your development throughout the course programme.

Online forum

Each unit has a dedicated forum to provide you with constant access to your tutor and a shared learning area with fellow delegates. Creating a dedicated learning environment you will be able to partake in topic discussion and share you learning with lots of other people from all over the world.

Virtual Learning

Virtual learning sessions have been designed to support the delegates and help consolidate their knowledge. These structured training sessions will allow the tutor to teach and explain the knowledge and theory in a live environment. Being online is like a face to face session without the need to leave the office, so delegates can be based anywhere geographically.

Course Contents

Module 1 – Introduction to BIM & the business case of BIM

- The concept of BIM from a multidisciplinary perspective
- The business case for BIM, its benefits and challenges and adoption issues
- Achieve an awareness of BIM execution plans and maturity models
- Analyse of the UK Government BIM strategy, global adoption and key documents in support of it

Module 2 – Strategic definition phase

- The initial key BIM activities and documents that have be put into place at the strategic definition stage of a project.
- Define the new roles and responsibilities associated with a BIM
- How to design and structure a BIM implementation strategy
- Different levels of development and detail at key project stages and how this can be dictated by the client requirements and procurement process

Module 3 – Preparation and brief phase

- Key BIM activities in the preparation and brief phase
- The importance of the common data environment and how it should be structured and managed correctly
- The purposed and structure of the BIM execution plan (BEP) and be able to design and implement a project specific BEP

Module 4 – Concept design/ Developed design/ Technical design/ Construction phases

- Define the key BIM activities during the design (concept/ development/ technical) and construction phases
- Apply different methods of how to encourage collaboration and coordination in a BIM environment
- Define the importance of validation at key stages and key check to make

Module 5 – Handover and close out

- Analyse the format and process of handing over the BIM and electronic data and documents across to the client at practical completion
- Structure how to measure performance and success

Module 6 – Operations and end of use

- Define the relationship between BIM and FM and how it can provide value to a client during the operational phase of an asset
- Analyse what a client needs in place if they wish to utilize the BIM during the operational phase

Module 7 – Legal and Insurance Implications

- The legal and insurance implications that need to be considered on a BIM project
- Assess your understanding of the BIM methodology
- Course Summary
- Course online exam

This certificate level course is made up of the following 7 technical units covering the practices and principles of BIM in project management

Module 1: Introduction to BIM

Module 2: Strategic-definition, preparation and brief

Module 3: Concept design

Module 4: Developed design

Module 5: Technical design

Module 6: Construction

Module 7: Handover and close out

Module 8: Operations and end of use

Learning Outcomes

Upon reaching the end of each unit, candidates should have gained the required knowledge and understanding to be able to:

- Identify the case for BIM in any project, taking into account costs and benefits, examining the major cost drivers, functionality and characteristics of a BIM model
- How to create a BIM execution plan including the process, content, production and evaluation
- Apply the processes and standards applicable to the management of information about an asset throughout its lifespan
- Identify who and how to engage with the right stakeholders at each stage of the project lifecycle
- The interaction of process, technology and people in a BIM environment
- Apply the tools and techniques that support enhanced collaboration among the project stakeholders
- Understand the technology and the common data environment that supports BIM
- The application of technology in one or more of the following: geo-spatial, design, cost, time and facilities management environments
- Recognise the level of detail that BIM models can contain and how this relates to the stages of design, construction and maintenance
- Know how BIM requirements can be implemented within the project legal, procurement and tendering framework and to review global examples of this in practice
- Determine the legal implications of BIM in terms of intellectual property, insurances and potential liabilities
- Evaluate contract requirements and commercial data of BIM models, and the inputs and outputs to be expected at each stage of the project lifecycle

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 6 month course and you will need to acquire the requisite minimum score to successfully complete the course.

Upon successful completion of the course delegates would have completed 200 CPD hours study over the 6 month period. Delegates will also receive a certificate of course completion confirming you have successfully attended and passed the RICS Certificate in Building Information Modeling - Project Management.