Certificate in Building Information Modelling (BIM) - Project Management

RICS®

Certificate in BIM

Language: English
Market sector: Built environment and construction
Course type: Blended training programme

Welcome

We are very excited that you have chosen to study the **Certificate in Building Information Modelling (BIM) - Project Management.** This guide will set out some helpful information and tips for you to get the most out of this course.

First steps

1. Familiarise yourself with the guidance materials provided on the main page of your course.

2. Bookmark the course page for ease of access.

3. We recommend that you use Google Chrome.

4. Disable pop-up blockers in the settings of your Internet browser.

Method of study

This course has seven modules and an exam at the end of the course. Within each module, you will find a wealth of resources at your disposal, ensuring a well-rounded learning experience: eLearning, reading materials, case study activities and quizzes. You also have access to live consolidation sessions, where a tutor will take you through the module, case study and any tricky elements of learning.

Every month, a new module will become available. You will have one month to complete each module and a further two months to complete the exam and any outstanding work. After this time, the course will end, and you will no longer have access to these materials. Therefore, it is crucial to manage your time effectively and plan your studies in line with the course calendar.

Your final exam will be taken online with an exam window of one month's time. You have two attempts to pass the exam. On passing the exam, you will be awarded a RICS Certificate of course completion in Building Information Management.

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What support do you receive?

Discussion forum: Use the forum to post your technical questions about the subject in the Discussion Forum for support from our tutors and download the Discussion Forum – Guidance and Code of Conduct.

Should you encounter any difficulties with the **course materials**, whether it is a technical or content-related issue, please contact the Online Academy team: onlineacademy@rics.org

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Course Overview

The accelerated use of BIM and digital technologies has transformed the way the built environment is delivered and consequently, transformed the managerial competencies that the sector requires.

The project manager has a critical role when advising clients and stakeholders about the benefits of BIM – how, when and where BIM can contribute to the project outcomes and then demonstrate the knowledge and competence to manage the construction or infrastructure project smoothly. The BIM manager is required to understand the information requirements across the project lifecycle, develop information management process and ultimately to create a project environment in which BIM can work most effectively in a collaborative approach.

This certificate course will cover the entire BIM project lifecycle and provide you with knowledge and skills required to manage BIM-based information flow at each phase of the project. You will see how BIM technology has been implemented in real world scenarios and how BIM process has been transitioned in alignment and integration to the international ISO 19650 standards.

Furthermore, by working through a simulated BIM project you will embed cutting edge industry practice, and hands-on experience throughout the BIM process. Ultimately, you will be able to implement smoother collaboration with your project stakeholders, improve control of project data, benefit from streamlined information management, and reduce the risks of project conflicts, delays or added costs.

The course is aimed at project managers and similar roles with the responsibility of delivering projects with BIM defined as a requirement and those within BIM manager, BIM coordinator and BIM consultant roles. In addition to project managers, the course will support client, architects, quantity surveyors, facilities managers and building surveyors looking to gain a detailed understanding of how BIM is implemented into a construction project.

Course structure

Introduction to BIM

Module 1 – Transition to ISO 19650

Module 2 – Assessment and Need

Module 3 – Invitation to Tender and Tender Response

Module 4 – Appointment and Mobilization

Module 5 – Information production and planning

Module 6 – Information Model Delivery & Project Close-out

Module 7 – BIM for Operations

Learning Outcomes

At the end of this course, you will be able to:

1. Define the business case for BIM in any project, taking into account benefits, examining the drivers, functionality and characteristics of a good BIM model

2. Identify key changes in the transition to ISO 19650 and how these changes impact on existing activities and processes

3. Create an Exchange Information Requirement (EIR) and BIM Execution Plan (BEP) including the process, content, production and evaluation

4. Adopt a collaborative approach to the information production, delivery and exchange across an asset's lifespan

5. Identify who and how to engage with the right stakeholders at each stage of the project lifecycle and develop standards and protocols at organizational and project level for control, feedback and analysis

6. Outline the interaction of information, process, technology and people in a BIM environment

7. Select the tools and techniques that support enhanced collaboration among the project stakeholders

8. Evaluate contractual requirements and commercial data of BIM models, and define the inputs and outputs to be expected at each stage of the project lifecycle

9. Identify the relevant technology that supports BIM in one or more of the following: geo-spatial, design, cost, time and facilities management environments (CDE, etc.)

10. Recognize how BIM requirements can be implemented within the project legal, procurement and tendering framework and to review global examples in practice

11. Have an awareness of the contractual and legal risks and their implications in terms of intellectual property, insurances and potential liabilities

12. Comprehend how BIM can contribute to energy efficiency, carbon assessment, sustainable environment and manage the processes required to optimise these outcomes

Learning Resources

Discussion forum – Discussion forums are a great tool for you to share information and experiences with your fellow students about the course topics, how they apply to you and/or your industry as well as to ask questions to your tutor. Replies from the tutor can be expected within 3 to 5 working days.

eLearning - interactive and responsive learning experience, delivering technical content in manageable, bite-sized segments, offering a blend of instructional examples, valuable tips, realistic scenarios and engaging interactive activities. Please select the 'Exit course' button at the top right-hand corner of the screen before closing the eLearning. This is to ensure your progress is saved.

Reading materials – Each module is supported by structured reading materials such as professional guidance and standards, videos or the latest insight articles and research.

Essential reading files require you to view all files for the section to be marked as completed.

Further reading materials have been provided should you wish to expand your knowledge a bit further, but they are not mandatory.

iSurv troubleshooting tips - Some of the reading will be available on isurv. To request access to isurv, please email onlineacademy@rics.org.

Case study – The case study is an opportunity for you to put theory into practice. This activity will not be graded or contribute to the course completion requirements. Instead, the **Case Study Exchange** will serve as a platform for you to share your work with peers, a valuable practice that can broaden your perspectives and generate a diverse range of insights and ideas as they may offer unique viewpoints that you hadn't previously considered, ultimately enhancing the depth and quality of your case study. Upon sharing your case study, you will unlock the module's Case Study Examples folder where you can find examples of previous completed case studies.

If you need more assistance, you can also view the case study walkthrough video that is either embedded in the Consolidation session or in the best example folder.

Consolidation session - This is a one-hour live web class that consolidates learning from the eLearning modules, reading materials, case studies and common questions that have been raised in the forum. The recording of the session will be provided in case you miss the live session. You do not need to mark this activity as completed.

End of module quiz - A short quiz tracks how much of the learning has been absorbed and acts as a progress tracker for you. Quizzes do not require a passing grade, but you must attempt them to have the activity marked as completed.

End of course exam - Upon completion of all the modules and activities, you will unlock the program examination. The exam consists of 50 multiple-choice questions. The passing grade is 65% and you have one hour to complete. You are allowed two attempts, however, the second attempt is only released 24 hours after the first attempt.

A certificate of completion RICS Certificate in Building Information Management Online program will be granted upon successful completion.