

Technical Education Services

BIM Management Certificate Course

Course Duration: 4 days

- BIM Fundamentals
- BIM Advanced Concepts
- Competency Assessment



Course Overview

Part 1 will discuss the basic themes and knowledge required to understand the principles of BIM. The course will outline the basic terminology in regard to BIM as well as the requirements for skills and understanding for any member of the Construction Industry to ensure they understand the basic principles and can discuss BIM in context to their projects.

Part 2 details the procedures and processes in regards to delivering BIM in line with client requirements and objectives to ensure teams understand the documentation, skills and abilities to promote BIM and enable future business. The topics will include detailed explanations of the processes in line with regional and international examples.

Delegates will gain insight into the details of utilising best practice procedures in relation to BIM and begin to understand how to manage their projects and individual requirements in regard to BIM.

Understanding the strategic management as well as the technical drivers ensure that projects utilising BIM will create value for the end user as well as for those involved in the design, construction, operation and maintenance of the project.

BIM is more than just working in a 3D environment, it is about ensuring teams have the relevant capabilities, the required skills and knowledge and the drive to be able to succeed and commit to it. The benefits of BIM can be seen heavily in the operational phase of assets and it is the aim of the course to ensure delegates build their knowledge in regard to all stages of a project. An understanding of how BIM can drive greater efficiencies during the design, construction and operation phase is critical to BIM and these notions and ideas will be explained further. The course will also introduce the relevant technologies that enable and support BIM and how these can be utilized on a project.

For the current course
schedule and to register
for this course:

Web: redstack.com.au

Phone: 1300 667 263

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Why choose Redstack for your BIM training?

Redstack have proven expertise with a number of successfully completed projects throughout the Asia Pacific region. Our local team is led by one of Australia's only accredited BIM professionals, Jack DeCandia. Our Sydney, Melbourne and Adelaide training rooms are equipped with the latest technology and we utilise industry leading teachers and presenters to ensure we deliver a high quality training experience.

CITB Subsidies Available



Redstack's BIM Management Training is endorsed by the Construction Industry Training Board. A subsidy is available to the first 10 CITB members who take up this offer. Contact us on 1300 667 263 to confirm your eligibility and obtain further details on this offer.

Learning Objectives and Outcomes:

- Understand the basic principles of BIM
- To gain an understanding of basic drivers toward implementing BIM.
- Learn the benefits of BIM.
- Challenges and building capability in the context of BIM.
- An overview of all the relevant government drivers in relation to BIM (both locally and internationally).
- International Context.
- The value of data and how information should be managed, delivered and used through all stages of a project.
- Be clear on why BIM is a determining factor on delivering projects on time and without waste and inefficiencies.
- Skills required to be able to deliver projects within a BIM Context.
- Assessing the supply chain regarding BIM and if they have the skills and knowledge to be able to deliver.
- The relevance of ISO9001 in relation to BIM.

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- Strategies toward Asset and Facilities Management.
- Learn how to create and update important project documentation such as a BIM Execution Plan.
- The Legal and contractual implications of BIM on your organisation and how they will affect the projects you work on.
- The importance of Information Management throughout all stages of a project.

Benefits of Attending BIM Management Training:

- Be able to explain the basic principles and terminology in relation to BIM
- Have a clear idea of how BIM enables greater efficiencies and how these relate to the projects you work on.
- To engage with clients on the benefits and key drivers that are associated to BIM.
- How to manage teams and projects in context to BIM and ensuring all members of the supply chain are aware of the requirements to be able to deliver.
- Understand and utilize the technologies that support BIM and how they can be used to drive greater efficiencies and workflows.
- Be able to work on projects in a BIM context.
- To support growth of your organisation.
- Upskilling and knowledge gain for you and your employees/colleagues.
- Understanding of BIM processes and procedures. The course will detail these processes and allow delegates to confidently be able to execute the core principles in regard to achieving BIM on their projects.
- Create your own template documents, including a BIM Execution Plan and company specific BIM Documents.
- To gain a better understanding of the relationship between Design and Construction and into Facilities and Asset Management to provide better solutions for your clients.
- Know what to look for when being appointed and how BIM affects your contracts.
- Be able to work within the context of both local and international projects.

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Who should attend BIM Management training?

The course is suited for all members of the Architecture, Engineering, Construction, Asset Management and Property Development Industries who are looking to upskill in the context of BIM and understand the way in which BIM influences, changes and positively affects the industry. The course will provide advanced knowledge to be able to deliver on BIM in the context to their projects.

BIM Management Training Prerequisites:

There are no prerequisites for this BIM training course.

Course Content

Part 1: BIM Fundamentals

Day 1

- Overview and Introduction to the Course
- What is BIM?
- Why adopt BIM?
- The Benefits of BIM
- The Challenges of BIM Implementation
- BIM Dimensions
- Collaborative Working
- Challenges within existing working practices
- BIM in Australia and local processes.
- Global Context and differences
- Global communities supporting BIM.
- The concept of Whole life and whole estate/portfolio vs capital led and single asset
- Drivers and process requirements for successful adoption and understanding of BIM.
- Driving efficiencies through clear and concise information requirements (An EIR).
- The importance of Data and how it should be managed and delivered.
- Global Industry standards supporting BIM (eg. Singapore, USA, UK).

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Day 2

- The roles and responsibilities required to deliver a BIM project.
- Drivers for Business Process and review.
- The return on investment (ROI) which will inform decision making.
- Project Management and BIM.
- Ensuring the capability of the supply chain is in line with the owner's requirements.
- Procurement.
- Pre-Qualification and BIM
- Tendering and BIM.
- Supplier Responsibilities and understanding BIM in context to your professional role.
- Responsibilities and Contractual requirements
- BIM Technology - Authoring
- BIM Technology - Coordination
- BIM Coordination - A common Data Environment
- BIM Technology - Data Management
- Training and upskilling in the context of your organisation.
- Aligning client aspirations against a BIM Deliverable.
- The importance of project model information vs asset model information and the differences between the two.

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Part 2: BIM Advanced Concepts

Day 3

- The importance of an information delivery cycle in regard to BIM.
- Asking Plain Language Questions.
- Client Responsibilities.
- The role of the owner/client and the relationship to the Employers Information Requirements (EIR), the Asset Information Model (AIM) Strategy as well as detailed team member roles regarding processes including project or firm specific skills.
- Capability of the supply chain and Pre-Qualification.
- How to develop specific task (supplier) information plans against client defined information deliverables.
- A detailed synopsis of the core BIM related standards both locally and internationally and where they are applicable.
- Commercial implications for contracts and insurances in regard to BIM.
- Design Responsibility Matrix and supplier responsibilities.
- An overview and recommendations in regard to Professional Indemnity Insurance and the implication on projects in relation to BIM.
- Employers, Organization and Asset Information Requirements (EIR's, OIR's and AIR's) – What are they?
- The importance of the role of Information Management.
- Supply Chain Capability Assessment, including IT, BIM and Resource Assessment.
- Overview of the contents of a Pre and Post Contract BIM Execution Plan (BEP) and how to ensure constant review and updates are achieved.

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Day 4

- Detailed Security issues and the responsibility to review these.
- Information Exchanges and formats.
- The details and relevance of Information Exchange.
- BIM Deliverables and the importance of good model data.
- Security Implications and BIM.
- Project Planning
- BIM Authoring and use
- BIM Technical. The importance of Model auditing, checking, review.
- Common Data environment processes
- Standard processes and procedures.
- Level of Development.
- Deliverables.
- Supplier responsibilities for model data exchange and federation
- Reviewing model data
- Client drivers and responsibilities
- Managing tier 2 suppliers
- Ensuring Capabilities are in line with client requirements.
- Achieving results and feedback

Part 3: Assessment

- Assessment of topics covered

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Cancellation Policy

The following cancellation policy shall apply to all training and consulting engagements including customised training solutions:

Redstack reserves the right to reschedule or cancel the date, time and location of its class at any time. In the event that a Training Class is cancelled by Redstack, Customer is entitled to a full refund. Redstack shall not be responsible for any other loss incurred by Customer as a result of a cancellation or reschedule.

For Customer cancellations when written notice is received (i) at least ten (10) business days in advance of the class, Customer is entitled to a full refund of its payment or reschedule enrolment, (ii) less than ten (10) business days, Customer shall not be entitled to a refund, but shall receive a class credit to be used within three (3) months of the date of the original class.

Student substitutions are acceptable with at least two (2) days prior notice to the class, provided substitution meets course prerequisites and is approved by Redstack

For all Training orders, cancellation notices must be submitted in writing. Redstack is not responsible for any error in the delivery of the email notice. In the event of any reschedule of any training or consulting services by Customer, Redstack will invoice Customer for all non-cancellable travel expenses.

For more information, contact us on 1300 667 263.