

Online Training: PCERT Foundation Course

Instructor

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Course Duration

5 half days of online training and tuition
between 12:30 pm to 05:00 pm (AEST)

Course Venue

Online Training

Course Start

20th October 2025 @ 12:30 pm (AEST)

Course End

24th October 2025 @ 02:00 pm (AEST)

Course Materials

Module (topic) based handouts (PDF)

Course Certificate

Certificate of Attendance

Course Overview

Whether you want to hone your existing openBIM skillset or kickstart your BIM knowledge to further your career, the PCERT Foundation course gives you the knowledge and expertise you need to succeed.

The course draws its core content from the ISO19650 standards and offers a comprehensive grounding in how to approach digital project delivery across all disciplines.

The course is being delivered live online. Individuals sitting this course are eligible to take the buildingSMART Professional Certification exam, gaining an internationally recognized qualification.

Course Structure

The course focusses on knowledge-based learning, divided into 12 modules, consisting of a presentation given by the instructor, a group task activity, and a quiz.

Resources

PowerPoint Presentations
Mentimeter (real-time voting) for quizzes
Mural (online) for group task activities

Prerequisites

No prior experience is required for this training course but some exposure to 3D modelling would be beneficial.

Course Schedule

No.	Course Modules	Description
01	Principles of BIM	Definition of BIM, drivers that have led to BIM, what constitutes a [BIM] model, information management maturity stages, and new collaborative ways of working.
02	Dimensions of BIM	Definition of BIM dimension, benefits of the dimensions of BIM, difference between the BIM dimensions, and how BIM dimensions can help to enhance the data of a model.

03	Standards & Guidelines	Hierarchy of BIM documents, standards and guidelines, project information delivery cycle, digital asset strategies, digital engineering frameworks, and the OBOS.
04	Information Requirements	BIM compared to traditional project delivery, effects of poor information management, standards and processes, OIR, AIR, PIR, EIR, and project information management.
05	BIM Use Cases	Definition of BIM use case, classification of a BIM use case, how to determine the content of a PIM, and how BIM uses cases should be recorded.
06	Level of Information Need	Key BIM terminology, definition of LOIN, what constitutes an information model, how to use an MPDT, and how to define the expected LOIN of individual model elements.
07	Roles & Responsibilities	What roles are required, the RACI chart, definition of information management roles (functions), project, delivery and task teams, and the five activity groupings.
08	Common Data Environment	Information exchange, key elements of a CDE, data security, the four states of a CDE, and the difference between the native and collaborative environment.
09	buildingSMART & openBIM	buildingSMART International and buildingSMART Australasia, definition of openBIM, IFC, MVD and IDM, bSDD and BCF and their benefits.
10	BIM Execution Plan	Information delivery planning, definition of a (pre-appointment) BEP, content and value of a BEP, structure of a BEP, how to prepare and apply a BEP.
11	BIM Implementation	Assessments, benefits for a company in adopting BIM, level of BIM maturity, BIM adoption and organisational goals, and benefits and challenges to BIM adoption.
12	BIM Coordination	Challenges in project coordination, benefits of BIM for professionals, difference between project and technical coordination, and reporting coordination issues.

Online PCERT Foundation Exam

Online Examination	Timed online examination assuring global certification consistency. Registration in the bSI Foundation Qualification Platform by the training provider.
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Course Calendar

