



Australian Government

CPCBIM4002 Use BIM processes to carry out construction work

Release: 2

CPCBIM4002 Use BIM processes to carry out construction work

Modification History

- Release 2 Updated reference to general construction induction training program.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 6.0.
New unit.

Application

This unit of competency specifies the skills and knowledge required to use Building Information Modelling (BIM) processes to carry out construction work. It includes using 2D drawings and 3D models and related data to clarify construction work requirements, coordinate models and manage risks associated with planned construction work and schedule, and sequence work activities and resources.

The unit applies to builders, tradespersons, project and site managers who work on construction projects that incorporate BIM interaction, collaboration and deliverables. It requires digital literacy skills to use software via information and communication technology (ICT), including applications on mobile devices to find, retrieve and communicate information.

A person who has achieved this unit of competency is able to work with autonomy and take responsibility for applying BIM processes to construction work.

Completion of the general construction induction training program specified by the model Code of Practice for Construction Work is required for any person who is to carry out construction work. Achievement of *CPCWHS1001 Prepare to work safely in the construction industry* meets this requirement.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil.

Unit Sector

Business information modelling

Elements and Performance Criteria

Elements describe the Performance criteria describe what needs to be done to

essential outcomes.	demonstrate achievement of the element.
1 Prepare for construction work.	1.1 Identify reporting and documentation processes and protocols to comply with BIM Execution Plan and workplace requirements. 1.2 Identify project participants and clarify roles and responsibilities relevant to planned construction work to meet BIM Execution Plan and workplace requirements. 1.3 Interpret 2D drawings and 3D model and data to clarify scope of construction work and check information to confirm currency. 1.4 Access and assess other documentation related to construction work to ensure full understanding of activities, timeframes and regulatory compliance requirements.
2 Manage risks associated with construction work.	2.1 Use BIM tools and technologies to create and test virtual construction models and detect coordination issues, including clashes associated with planned construction work. 2.2 Use BIM tools and technologies to detect work health and safety (WHS) and regulatory compliance risks associated with planned construction work. 2.3 Consult with project participants to discuss and agree strategies to resolve coordination issues and mitigate risks. 2.4 Implement actions required to resolve coordination issues and mitigate risks associated with planned construction work in accordance with workplace requirements.
3 Schedule and sequence construction work requirements.	3.1 Use BIM data to sequence construction work activities to achieve required efficiencies and compatibilities with other construction disciplines. 3.2 Use BIM data to schedule equipment and resources to meet construction work timeframes in accordance with workplace requirements.

- 3.3 Document and communicate construction work requirements to project participants to meet BIM Execution Plan and workplace requirements.

Foundation Skills

As well as the foundation skills explicit in the performance criteria of this unit, candidates require:

- digital literacy skills to use software via ICT, including applications on mobile devices to find, retrieve and communicate information.

Unit Mapping Information

No equivalent unit.

Links

Companion volumes to this training package are available at the VETNet website -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>