



Australian Government

Assessment Requirements for CPCBIM4003 Contribute to BIM deliverables for construction work

Release: 2

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Modification History

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| 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. |

Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit contributing to Building Information Modelling (BIM) deliverables for completed construction work in compliance with project requirements specified in a BIM Execution Plan and, in doing so:

- use at least two different BIM technologies (tools and software)
- identify and correct two problems associated with data capture, information currency and/or format.

Knowledge Evidence

To be competent in this unit, a candidate must demonstrate knowledge of:

- BIM project delivery methods
- BIM standards relevant to planned construction work, including the BIM ISO 19650 *Organization and digitization of information about buildings and civil engineering works, including building information modelling (BIM)* - *Information management using building information modelling* (or its successor)
- BIM uses relevant to construction phases
- common BIM tools and technologies
- common methods for identifying assets in a BIM asset register
- documentation used to enable model-based collaboration between project participants
- graphical and data communication methods when working with BIM
- meaning and benefits of visual communication and extended reality technologies during the construction phase of a BIM project
- meaning and purpose of 'digital twin', its relationship with BIM, and its context within the facets of the operations and maintenance phase
- meaning of open formats as distinct from proprietary formats and their role in interoperability and archiving of project information
- methods for confirming currency of construction documentation and data

- purpose and content of BIM Execution Plans and their relationship to project information requirements
- purpose and components of the Project Information Model (PIM) that can be expected at handover from using BIM tools and workflows for construction projects
- purpose and identification and classification to elements of a BIM model
- role of the Common Data Environment (CDE) in managing project information
- roles and responsibilities of BIM project participants across multiple disciplines
- types of drawings, models and documentation used for a BIM handover
- workplace requirements for finalising construction work to comply with BIM project requirements:
 - compliance with relevant regulations and standards
 - documentation
 - quality control

Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

Assessment must be conducted in the workplace or a simulated workplace using realistic conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Candidates must have access to documentation, technologies, equipment and other resources required to achieve the performance criteria and performance evidence.

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>