DCSBIM639: Use Building Information Modelling (BIM) Technology for a Project

UNIT CODE		**DCSBIM639**	
UNIT TITLE		**Use building information modelling (BIM) technology for a project**	
APPLICATION		This unit describes the skills and knowledge to use Building Information Modelling (BIM) technologies. The unit covers an overview of the technology, explores the applications of the technology and its use for a given project. This unit is applicable to individuals using BIM technologies to facilitate project management and add value to project deliverables through the design and implementation of effective collaborative models. No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.	
ELEMENTS		**PERFORMANCE CRITERIA**	
Elements describe the essential outcomes.		Performance criteria describe the performance needed to demonstrate achievement of the element.	
1	Explore applications of building information modelling (BIM) for the project.	1.1	Define BIM deliverables for the project context.
		1.2	Identify benefits of BIM for the project design and specifications.
		1.3	Determine the advantages and limitations of BIM for the project.
		1.4	Confirm the range of relevant software programs that can operate within the BIM platform.
2	Prepare to use BIM technology and terminology for project.	2.1	Identify scope of work and project duration.
		2.2	Confirm project stakeholders impacted by BIM technology.
		2.3	Confirm BIM functionality with other software programs in accordance with organisational and project requirements.
		2.4	Communicate an appropriate collaborative model for implementation for the duration of project.
		2.5	Ensure integrity of data, including format, is retained in accordance with organisational procedures and project requirements.
		2.6	Establish communication protocols to use relevant BIM data with project stakeholders in accordance with project requirements and data sharing procedures.
3	Apply BIM technology for a project.	3.1	Communicate and collaborate with various stakeholders using a common BIM model for the duration of the project.
		3.2	Manipulate, share and contribute BIM data for the project in accordance with organisational and project requirements, as appropriate.

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		3.3	Manage project contingencies in accordance with organisational and project requirements, as required.
		3.4	Record and report BIM performance, project outcomes and areas for improvement, in accordance with organisational and project requirements.

FOUNDATION SKILLS Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.	
UNIT MAPPING INFORMATION VU22678 Use building information modelling (BIM) technology for a project is equivalent.	
TITLE	**Assessment requirements for DCSBIM639 Use building information modelling (BIM) technology for a project**
PERFORMANCE EVIDENCE	To achieve competency in this unit, a person must satisfy the requirements of the elements and performance criteria, foundation skills and range of conditions included in the unit. The person must also: • explore applications of building information modelling (BIM) for the building project • apply BIM technology for a project in collaboration with stakeholders • develop and apply appropriate collaborative models for project context • communicate project processes effectively to stakeholders for project duration. Note: If a specific volume or frequency is not stated, then evidence must be provided at least once for each criterion.
KNOWLEDGE EVIDENCE	To achieve competency in this unit, a person must demonstrate knowledge of: • relevant industry and BIM terminology • benefits and key features of BIM applications • BIM documentation requirements • strengths and limitations of using BIM • project management strategies

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ASSESSMENT CONDITIONS	**Assessment Conditions:** All assessment must be completed in accordance with work health and safety standards. When assessments are conducted remotely, invigilation software must be used to ensure authenticity of work completed. Model answers or marking guides must be provided for all assessments to ensure reliability of assessment judgements when marking is undertaken by different assessors. Assessors must gather a range of evidence that is valid, sufficient, authentic, and current. Questioning techniques must not require language, literacy and numeracy skills beyond those required in this module. The candidate must have access to all tools, equipment, materials and documentation required. **Assessor Requirements:** Assessment must be conducted only by persons who: • hold vocational competencies at least to the level being delivered and assessed • maintain current industry skills directly relevant to the training and assessment being provided • hold a tertiary qualification in engineering or a related field • meet the assessor requirements specified in the current Standards for Registered Training Organisations (RTOs) • undertake ongoing professional development in vocational training, learning, and assessment, including competency-based training and assessment, as required by their RTO. The RTO must also ensure that trainers and assessors keep their industry knowledge up to date through ongoing professional development. The RTO must take appropriate steps, as an ongoing procedure, to verify information about trainer and assessor's qualifications.