

**22634VIC Course in Onsite Installation of
Prefabricated Building Systems (Timber)**

**22635VIC Diploma of Project Management for
Prefabricated Building Systems (Timber)**

Version 1.1 – February 2026

**This course has been accredited under Part 4.4 of the
*Education and Training Reform Act 2006.***

**Accredited for the period: 01 January 2024 to 31
December 2028**

Version History:		Date
Version 1.1	Update to contact details in A2 and A5	February 2026
Version 1	Initial accreditation	October 2023

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Section A – Copyright and course classification information

1. Copyright owner of the course	© State of Victoria (Department of Jobs, Skills, Industry and Regions) 2023
2. Address	<p>Deputy CEO Victorian Skills Authority Department of Jobs, Skills, Industry and Regions (DJSIR) GPO Box 4509 Melbourne Vic 3001</p> <p>Organisational Contact: Manager, National Systems Engagement & Reform Unit Engagement & Reform Branch Victorian Skills Authority Department of Jobs, Skills, Industry and Regions (DJSIR) Email: course.enquiry@djsir.vic.gov.au</p> <p>Day-to-day contact: Specialist Adviser: Vocational Qualifications and Skills Reform (VQSR) Natural & Built environment Melbourne Polytechnic Email: SA@melbournepolytechnic.edu.au</p>
3. Type of submission	<p>This submission is for the re-accreditation of the:</p> <ul style="list-style-type: none"> • 22501VIC Course in Onsite Installation of Prefabricated Building Systems (Timber) • 22502VIC Diploma of Project Management for Prefabricated Building Systems (Timber)
4. Copyright acknowledgement	<p>The following units of competency:</p> <ul style="list-style-type: none"> • BSBPMG427 Apply project procurement procedures • BSBPMG533 Manage project costs • BSBPMG540 Manage project integration <p>have been imported from the BSB Business Services Training Package administered by the Commonwealth of Australia. © Commonwealth of Australia.</p> <p>The following units of competency:</p> <ul style="list-style-type: none"> • CPCCBC4012 Read and interpret plans and specifications • CPCCBC4018 Apply site surveys and set-out procedures to building and construction projects • CPCCBC4052 Lead and manage teams in the building and construction industry • CPCCCA3002 Carry out setting out • CPCCOM2001 Read and interpret plans and specifications



	<ul style="list-style-type: none"> • CPCCSH2003 Apply and install sealant and sealant devices • CPCCWC3003 Install dry wall passive fire-rated systems • CPCCWHS2001 Apply WHS requirements, policies & procedures in the construction industry • CPCMCM8001 Plan and manage complex projects • CPCWHS1001 Prepare to work safely in the construction industry <p>have been imported from the CPC Construction, Plumbing and Services Training Package administered by the Commonwealth of Australia. © Commonwealth of Australia.</p> <p>The following unit of competency:</p> <ul style="list-style-type: none"> • CPPBDN4110 Set up BIM-capable software and files for building design drafting projects <p>has been imported from the CPP Property Services Training Package administered by the Commonwealth of Australia. © Commonwealth of Australia.</p> <p>The following unit of competency:</p> <ul style="list-style-type: none"> • MEM29012 Access and use a digital twin for operational purpose <p>has been imported from the MEM Manufacturing and Engineering Training Package administered by the Commonwealth of Australia. © Commonwealth of Australia.</p> <p>The following units of competency:</p> <ul style="list-style-type: none"> • TLID0041 Plan and conduct specialised lift • TLIL5019 Implement and monitor transport logistics <p>have been imported from the TLI Transport and Logistics Training Package administered by the Commonwealth of Australia. © Commonwealth of Australia.</p> <p>The following unit of competency:</p> <ul style="list-style-type: none"> • VU22702 Assemble and install panelised components onsite <p>has been imported from the 22504VIC Certificate III in Prefabrication Installation.</p> <p>Copyright of this material is reserved to the Crown in the right of the State of Victoria. © State of Victoria (Department of Jobs, Skills, Industry and Regions 2023).</p> <p>This work is licensed under a Creative Commons Attribution-No Derivatives 4.0 International licence (see Creative Commons for more information).</p>
<p>5. Licensing and franchise</p>	<p>Copyright of this material is reserved to the Crown in the right of the State of Victoria. © State of Victoria (Department of Jobs, Skills, Industry and Regions) 2023.</p>



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6. Course accrediting body	Victorian Registration and Qualifications Authority
7. AVETMISS information	<p>ANZSCO code – 6 digit</p> <ul style="list-style-type: none"> Australian and New Zealand Standard Classification of Occupations 330000 Construction Trade Workers <p>ASCED Code – 4 digit</p> <ul style="list-style-type: none"> Field of Education 0403 Building <p>National course code</p> <p>22634VIC Course in Onsite Installation of Prefabricated Building Systems (Timber)</p> <p>22635VIC Diploma of Project Management for Prefabricated Building Systems (Timber)</p>
8. Period of accreditation	01 January 2024 to 31 December 2028



Section B – Course information

1. Nomenclature	Standard 4.1 and 5.8 AQTF 2021 Standards for Accredited Courses
1.1 Name of the qualification	Course in Onsite Installation of Prefabricated Building Systems (Timber) Diploma of Project Management for Prefabricated Building Systems (Timber)
1.2 Nominal duration of the course	Course in Onsite Installation of Prefabricated Building Systems (Timber) – 156 - 180 hours. Diploma of Project Management for Prefabricated Building Systems (Timber) – 660 - 710 hours.
2. Vocational or educational outcomes	Standard 5.1 AQTF 2021 Standards for Accredited Courses
2.1 Outcome(s) of the course	<p>Course in Onsite Installation of Prefabricated Building Systems (Timber)</p> <p>The Course in Onsite Installation of Prefabricated Building Systems (Timber) is designed to provide learners with the skills and knowledge required to:</p> <ul style="list-style-type: none"> • interpret and follow assembly specifications for prefabricated timber building systems • install prefabricated timber building systems • use appropriate technology for the installation of prefabricated building systems. <p>At the completion of the Course in Onsite Prefabricated Building Systems(Timber) graduates will have the skills and knowledge required to undertake job roles as:</p> <ul style="list-style-type: none"> • installers of prefabricated timber building systems • onsite support workers for prefabrication installation. <p>Diploma of Project Management for Prefabricated Building Systems (Timber)</p> <p>The Diploma of Project Management for Prefabricated Building Systems (Timber) is designed to provide learners with the skill and knowledge required to:</p> <ul style="list-style-type: none"> • plan building construction projects • manage procurement processes • manage adherence to relevant building codes and standards, and OHS/WHS requirements • read and interpret plans and drawings • manage the installation of prefabricated timber elements • use building information modelling (BIM) technology.



	<p>At the completion of the Diploma of Project Management for Prefabricated Building Systems (Timber) graduates will have the skills and knowledge required to undertake job roles related to the management of prefabricated timber truss and frame construction projects, namely:</p> <ul style="list-style-type: none"> • Project Manager • Procurement or Logistics Manager • Installation Lead Manager • Compliance Manager.
<p>2.2 Course description</p>	<p>Course in Onsite Installation of Prefabricated Building Systems (Timber)</p> <p>The Course in Onsite Installation of Prefabricated Building Systems (Timber) provides learners with the skills and knowledge required to install prefabricated timber elements for Design for Manufacture and Assembly (DFMA) construction projects. The structures may be for residential or commercial premises.</p> <p>Diploma of Project Management for Prefabricated Building Systems (Timber)</p> <p>The Diploma of Project Management for Prefabricated Building Systems (Timber) provides learners with the skills and knowledge required to manage the construction of prefabricated timber building systems related to Design for Manufacture and Assembly (DFMA) construction projects. These projects may comprise secondary structural elements such as steel, concrete or hybrid systems. The structures may be for residential or commercial premises.</p>
<p>3. Development of the course</p>	<p>Standards 4.1, 5.1, 5.2, 5.3 and 5.4 AQTF 2021 Standards for Accredited Courses</p>
<p>3.1 Industry, education, legislative, enterprise or community needs</p>	<p>The use of prefabrication as a building technology is growing significantly within Australia and internationally¹. It offers practical, timely and cost-efficient benefits, affording greater than 40% decrease in waste compared to in situ building ². According to IBISworld Market Research (May 2022), there are 144 Australian businesses whose primary focus relates to prefabricated timber building structures such as portable homes, bus shelters, sheds, kit homes, carports and garages³.</p>

¹ <http://www.opv.vic.gov.au/files/sharedassets/public-opv/publications/offsite-construction-guide.pdf> page 3

² <http://www.opv.vic.gov.au/files/sharedassets/public-opv/publications/offsite-construction-guide.pdf> page 3

³ <https://www.ibisworld.com/au/industry/prefabricated-wooden-building-manufacturing/1868/> as viewed 15 November 2022



Victoria is reported to be the Nation's leader in off-site construction (OSC) use, housing more than 50% of Australia's OSC companies, including those that specialise in prefabricated timber building systems.⁴

In terms of market share, prefabricated building represents 5% of Australia's current \$150 billion construction industry. This is expected to grow at a compound annual growth rate (CAGR) of more than 7.5% until 2027 ⁵, and represent 15% of the market by 2025 ⁶, creating 20,000 new Australian jobs ⁷. PrefabAUS, the peak body for Australia's off-site construction industry, predicts that 10% of Australian homes will be prefabricated by 2030 ⁸.

Legislative changes by the Federal government that support the adoption of clean energy practices within the construction sector demonstrate broad support for the use of prefabricated timber building. This is evidenced by:

- the establishment of the Clean Energy Finance Corporation (CEFC) in 2012 which finances the CEFC Timber Building Program, and
- National Construction Code amendments in May 2016 to enable timber buildings up to 25 meters in height to be lodged with planning under deemed-to-satisfy provisions.

These initiatives support and create indirect demand for DFMA installers and skilled (timber) project management services.

Increasing awareness of the benefits of prefabricated building in reducing material waste and decreasing environmental disruption has helped shape government (sustainability) policy in recent years and provide stimulus programs that propel sector activity, those of note include:

- the allocation of \$2 million in 2019 to develop a collaborative design lab to assist manufacturers to innovate new prefabricated buildings, to strengthen Australia's position in the global prefabricated building market ⁹.

⁴ <http://www.opv.vic.gov.au/files/sharedassets/public-opv/publications/offsite-construction-guide.pdf> page 3 as viewed 15 November 2022

⁵ <https://thefifthstate.com.au/innovation/building-construction/prefabricated-may-be-the-only-viable-option-besides-its-not-so-cheap-and-nasty/> as viewed 26 October 2022

⁶ <https://pursuit.unimelb.edu.au/articles/the-future-is-prefabricated> as viewed 26 October 2022

⁷ <https://www.minister.industry.gov.au/ministers/karenandrews/media-releases/pre-fab-innovation-lab-building-industry>

⁸ Mordor Intelligence. *Australia Prefabricated Buildings Industry—Growth, Trends, COVID-19 Impact, And Forecasts (2021–2026)*; Mordor Intelligence: Hyderabad, India, 2019. As viewed 8 November 2022

⁹ <https://www.minister.industry.gov.au/ministers/karenandrews/media-releases/pre-fab-innovation-lab-building-industry>



- the allocation of \$4 million to fund the Australian Research Council Training Centre for Advanced Manufacturing of Prefabricated Housing¹⁰
- the roll out 114 energy efficient prefabricated modular homes by the Victorian state government, to provide housing for people, mostly in regional areas, who are experiencing or at risk of homelessness; this will create 10,000 jobs a year ¹¹
- announcement of the Offsite Construction (OSC) Guide in 2022 by the Office of Projects Victoria (OPV) Digital Building Program, to support a centralized department and agency to facilitate the uptake of more efficient and modern methods of construction in Victorian major infrastructure projects¹².

The use of cross laminated timber in offsite manufacture and construction requires unique building methods that differ to that of traditional onsite construction approaches involving concrete and steel. Management of prefabricated timber building systems using a Design for Manufacture and Assembly (DFMA) approach requires an appreciation of the integration of processes related to system design, manufacture, transportation, and assembly techniques. The project manager's role for this building system has evolved to align with offsite construction techniques which are not visible in a traditional construction site. Development of project management skills that focus on prefabricated timber building elements are therefore necessary to support fluid operation of the prefabricated timber construction industry. Similarly, installation of prefabricated timber elements requires an appreciation of the DFMA approach, where manufacture and assembly systems are closely aligned. Skills that focus on precision, initiative and reporting of anomalies are critical to the installation role.

In recognition of these skill needs, the former Office of the Victorian Skills Commissioner funded the development of two courses in 2019, the 22501VIC Course in Onsite Installation of Prefabricated Building Systems (Timber) and the 22502VIC Diploma of Project Management for Prefabricated Building Systems (Timber). These courses were exclusively delivered by Box Hill Institute initially, with the first pilot group for the 'Course in' attracting approximately 20 enrolments. Course enrolments trended upward until 2021. Providers indicated unclear target markets and lack of focused marketing as contributing factors for the downturn in enrolments in 2022. Course developers

¹⁰ <https://betterbuildingdaily.com/building/news-prefabricated-building-research-development/> as viewed 15 November 2022

¹¹ <https://www.premier.vic.gov.au/modular-homes-housing-people-across-victoria> as viewed 26 October 2022

¹² <http://www.opv.vic.gov.au/Digital-Build/Offsite-Construction> as viewed 15 November 2022



specifically addressed these issues as part of the reaccreditation process.

Enrolments for the 22502VIC Diploma of Project Management for Prefabricated Building Systems (Timber) increased from 2019 to 2020, peaking at 40 in 2020, and declined steadily thereafter. Providers attributed the surprising affect of COVID on course enrolments as reason for poor uptake. Greater course enrolment is expected once the course is reaccredited. The Victorian Skills Authority (VSA) and the Building and Construction Industry Advisory Group (IAG) reaffirmed course need by industry to support the reaccreditation of both courses.

The target group for the Course in Onsite Installation of Prefabricated Building Systems (Timber) is unqualified building practitioners working within construction or manufacturing industries who want to upskill to service DFMA construction projects.

The target group for the Diploma of Project Management for Prefabricated Building Systems (Timber) is those who want to broaden or extend their skill and knowledge to supervise or manage DFMA construction projects. This may include:

- tradespeople from building and construction or allied industries
- those that hold a higher education qualification relevant to the building and construction industry such as engineers, architects and other para professionals
- those with an equivalent level of practical work experience within the construction industry.

Course developers undertook desktop research and two site visits, one to a manufacturing facility and one to a construction site, to consult with industry stakeholders and inform training product development. The members of the steering committee met formally on three occasions to consider and confirm the required skills and knowledge outcomes of the courses (attached as an appendix), course structures and final accreditation submission. Stakeholder feedback was incorporated to refine the technical content and assessment requirements of the course submission and enterprise units, as appropriate.

The project for the development of the Course in Onsite Installation of Prefabricated Building Systems (Timber) and Diploma of Project Management for Prefabricated Building Systems (Timber) was overseen by a project steering committee comprised of the following industry and RTO representatives:

Tim Newman (Chair)	Timber Building Systems
Mark Newhook	Box Hill Institute
Dr. Alastair Woodard	Wood Solutions
Grant Steel	XLAM Australia



Nick Strongman	Sensum Group
Dr. Paul Kremer	University of Melbourne
Simon McCarthy	Bryden Wood (Aust)
Alessandra Yokota	Bryden Wood (Aust)
In attendance	
Teresa Signorello (TS)	CMM Manager, Building Industries Holmesglen Institute
Susan Fechner (SF)	Project Officer, Building Industries Holmesglen Institute

These courses:

- do not duplicate, by title or coverage, the outcomes of an endorsed training package qualification
- are not a subset of a single training package qualification that could be recognised through one or more statements of attainment or a skill set
- do not include units of competency additional to those in a training package qualification that could be recognised through statements of attainment in addition to the qualification
- do not comprise units that duplicate units of competency of a training package qualification.

3.2 Review for re- accreditation

This is the second iteration of the Course in Onsite Installation of Prefabricated Building Systems (Timber) and the Diploma of Project Management for Prefabricated Building Systems (Timber), both first accredited in 2019 and piloted as part of a Workforce Training Innovation Fund (WTIF) project.

The courses were allocated to the CMM Building Industries portfolio in late 2022, therefore course monitoring could not be undertaken prior to that time. Course review was undertaken by WITF project partners and involved evaluation of student survey results that assessed:

- attitudes related to course satisfaction and transferable skills taught from participation in the programs, and
- propensity for a Modern Methods of Construction mindset.

One survey was undertaken and issued to students of both courses. The response rate equated to 25% of the student course population. Results indicate that the pilot programs hold promise in driving Australia's competitiveness in terms of prefabrication techniques.

Course in Onsite Installation of Prefabricated Building Systems (Timber)



Enrolment data supplied by the Department of Jobs, Skills Industry and Regions (DJSIR) reveals enrolments increased each year from 2019, peaking at 29 enrolments in 2021 and declining in 2022.

Table 1: Victorian Course Enrolments Per Year 2019 to 2022

Year	Government subsidised enrolments	Fee paying enrolments	Total enrolments
2019	0	17	17
2020	0	15	15
2021	18	11	29
2022*	1	0	1

**Denotes half yearly enrolments.*

Course modification was made during the reaccreditation process as a result of industry feedback regarding clarity of course cohort and associated skill and knowledge profile review. The PSC determined:

- entry requirements were not appropriate for the course given the revised cohort, therefore all entry requirements were removed.
- the incorporation of digital skills was necessary as it is an integral part of the installers role, as well as skills related to safety whilst working on a construction site. A new enterprise unit was therefore developed and added to the course structure *VU23583 Use digital devices for prefabricated element installation*; the newly imported unit *CPCWHS1001 Prepare to work safely in the construction industry* was also added. The application of building codes and standards for prefabricated building systems was considered beyond the installers role, therefore the unit *VU22677 Apply building codes and standards for prefabricated building systems*, was deleted from the course structure. All remaining units were revised for currency.

The 22634VIC Course in Onsite Installation of Prefabricated Building Systems (Timber) supersedes and is not equivalent to 22501VIC Course in Onsite Installation of Prefabricated Building Systems (Timber).

The following table identifies the relationship between the current and previous units.

22634VIC Course in Onsite Installation of Prefabricated Building Systems (Timber)	22501VIC Course in Onsite Installation of Prefabricated Building Systems (Timber)	Relationship



VU22702 Assemble and install panelised components onsite		Newly imported unit
	FWPTMM3209 Install prefabricated timber building systems on-site	Deleted
CPCCWHS2001 Apply WHS requirements, policies & procedures in the construction industry	CPCCOHS2001 Apply OHS requirements, policies & procedures in the construction industry	Equivalent
	VU22677 Apply building codes and standards for prefabricated building systems	Deleted
CPCCCA3002 Carry out setting out	CPCCCA3002A Carry out setting out	Equivalent
CPCCOM2001 Read and interpret plans and specifications	CPCCCM2001A Read and interpret plans and specifications	Equivalent
CPCWHS1001 Prepare to work safely in the construction industry		Newly imported unit
VU23583 Use digital devices for prefabricated element installation		New unit
VU23584 Use mixed or blended reality technologies	VU22679 Use mixed or blended reality technologies	Equivalent
CPCCSH2003 Apply and install sealant and sealant devices	CPCCSH2003A Apply and install sealant and sealant devices	Equivalent
CPCWC3003 Install dry wall passive fire-rated systems	CPCWC3003A Install dry wall passive fire-rated systems	Equivalent

Diploma of Project Management for Prefabricated Building Systems (Timber)



Enrolment data supplied by the Department of Jobs, Skills Industry and Regions reveals enrolments peaked at 40 in 2020, and declined each year there after.

Table 1: Victorian Course Enrolments Per Year 2019 to 2022

Year	Government subsidised enrolments	Fee paying enrolments	Total enrolments
2019	0	23	23
2020	0	40	40
2021	5	8	8
2022*	0	0	0

**Denotes half yearly enrolments.*

Course modification was made during the reaccreditation process as a result of industry feedback regarding refinement of course cohort and associated skill and knowledge profile review. The PSC determined:

- the expansion of entry requirements to include vocational education and training qualifications as well as higher education qualifications that are relevant to the project manager role. The development of relevant construction skill and knowledge born from experience ‘on the job’ was also recognised and formally acknowledged as an alternative entry requirement.
- the incorporation of the following skills was necessary to better align course content to industry practice regarding the project management role. Deliberate focus was placed on the skill and knowledge related to the use of building information modelling (BIM), digital file management and quality management systems (QMS), teamwork, installation workflow and associated safety, project management and actions related to contract costs, procurement and variations. It was recognised that the reading and interpreting of plans and specifications required a unit more aligned with AQF 5. The course structure was therefore amended to comprise and accurately reflect the vocational outcome.

The 22635VIC Diploma of Project Management for Prefabricated Building Systems (Timber) supersedes and is not equivalent to 22502VIC Diploma of Project Management for Prefabricated Building Systems (Timber).

The following table identifies the relationship between the current and previous units.

22635VIC Diploma of Project Management	22502VIC Diploma of Project Management	Relationship



for Prefabricated Building Systems (Timber)	for Prefabricated Building Systems (Timber)	
VU23579 Develop critical path processes for productivity and scheduling of prefabricated building systems	VU22675 Manage critical path processes for productivity and scheduling of prefabricated building systems	Equivalent
VU23580 Manage prefabricated timber building systems	VU22676 Manage prefabricated timber building systems	Equivalent
VU23581 Apply building codes and standards for prefabricated building systems	VU22677 Apply building codes and standards for prefabricated building systems	Equivalent
VU23585 Use building information modelling (BIM) technologies for a project	VU22678 Use building information modelling (BIM) technologies for a project	Equivalent
VU23582 Manage construction project costs and contracts		New unit
BSBPMG540 Manage project integration	BSBPMG521 Manage project integration	Equivalent
	CPCCBBC5004A Supervise and apply quality standards to the selection of building and construction materials	Deleted
CPCCBBC4052 Lead and manage teams in the building and construction industry		Newly imported
CPCCBBC4018 Apply site surveys and set-out procedures to building and construction projects	CPCCBBC4018A Apply site surveys and set-out procedures to building and construction projects	Equivalent
VU23584 Use mixed or blended reality technologies	VU22679 Use mixed or blended reality technologies	Equivalent



BSBPMG427 Apply project procurement procedures		Newly imported
CPPBDN4110 Set up BIM-capable software and files for building design drafting projects	CPPBDN4004 Set up BIM-capable software and files for building design drafting projects	Equivalent
BSBPMG533 Manage project costs		Newly imported
TLIL5019 Implement and monitor transport logistics	TLIL5019 Implement and monitor transport logistics	No change
TLID0041 Plan and conduct specialised lift	TLID4032 Plan and conduct specialised lift	Equivalent
CPCMCM8001 Plan and manage complex projects	CPCMCM8001 Plan and manage complex projects	No change
CPCCBBC4012 Read and interpret plans and specifications		Newly imported
MEM29012 Access and use a digital twin for operational purpose		Newly imported
	CPCCCM2001A Read and interpret plans and specifications	Deleted

4. Course outcomes	Standards 5.5, 5.6 and 5.7 AQTF 2021 Standards for Accredited Courses
4.1 Qualification level	<p>Course in Onsite Installation of Prefabricated Building Systems (Timber)</p> <p>The 22634VIC Course in Onsite Installation of Prefabricated Building Systems (Timber) meets an identified industry need, but does not have the breadth, depth or volume of learning of a qualification.</p> <p>Diploma of Project Management for Prefabricated Building Systems (Timber)</p> <p>The course outcomes meet the requirements of the AQF specifications for a Diploma as specified in the Australian Qualifications Framework. Graduates of the 22635VIC Diploma of Project Management for Prefabricated Building Systems (Timber) will have the following:</p>



Skills:

- a broad range of cognitive, technical and communication skills to select and apply a range of methods and technologies to:
 - analyse construction information to plan and manage contractor integration, project costs and installation activities
 - provide and transmit solutions to complex project management problems related to contract variations, schedule clashes and site storage
 - transmit contract milestone expectations and quality standards to project stakeholders

Knowledge:

- technical and theoretical knowledge in the specific area of prefabricate timber building systems using a DFMA approach, within a broad field of work related to construction project management.

Application of skills and knowledge:

- to apply skills and knowledge to demonstrate autonomy, judgement and defined responsibility in DFMA construction contexts which may be dynamic and subject to variation, within broad and established parameters defined by legal contracts.

The volume of learning of a Diploma is typically 1 to 2 years and incorporates a range of learning activities such as:

- structured activities to develop the technical skills of the course and the knowledge that underpins performance
- unstructured activities may include independent study including research and reading, peer / mentor discussion, and work experience.

<p>4.2 Foundation skills</p>	<p>Foundation skills applicable to the outcomes of these courses are identified in the performance criteria or, where not explicit, within the Foundation Skills sections in the units of competency.</p>
<p>4.3 Recognition given to the course (if applicable)</p>	<p>Not applicable</p>
<p>4.4 Licensing/regulatory requirements (if applicable)</p>	<p>There are no licensing or regulatory requirements for these courses, however completion of the general construction induction training program is required by anyone carrying out construction work on a construction site. Achievement of the unit <i>CPCWHS1001 Prepare to work safely in the construction industry</i>, meets this requirement. Relevant information may be found here:</p>



5. Course rules	Standards 5.8 and 5.9 AQTF 2021 Standards for Accredited Courses
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5.1 Course structure

To achieve the award of 22634VIC Course in Onsite Installation of Prefabricated Building Systems (Timber) the learner must successfully complete a total of seven (7) units comprising:

- six (6) core units
- one (1) elective unit which must be selected from three (3) elective units listed below.

Where the full course is not completed, a VET Statement of Attainment will be issued for each unit successfully completed.

Unit of competency code	Unit of competency title	Field of Education code (six-digit)	Pre-requisite	Nominal hours
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Core units

CPCCWHS2001	Apply WHS requirements, policies & procedures in the construction industry	061301	Nil	20
CPCCCA3002	Carry out setting out	040311	CPCCWHS2001	24
CPCCOM2001	Read and interpret plans and specifications	040301	CPCCWHS2001	36
CPCWHS1001	Prepare to work safely in the construction industry	061301	Nil	6
VU22702	Assemble and install panelised components onsite	040399	Nil	50
VU23583	Use digital devices for prefabricated element installation	080905	Nil	4

Elective units

CPCCSH2003	Apply and install sealant and sealant devices	040311	CPCCWHS2001	16
CPCCWC3003	Install dry wall passive fire-rated systems	040313	CPCCWHS2001	40
VU23584	Use mixed or blended reality technologies	020115	Nil	20
Total nominal hours				156-180



	<p>To achieve the qualification 22635VIC Diploma of Project Management for Prefabricated Building Systems (Timber) the learner must successfully complete a total of thirteen (13) units comprising:</p> <ul style="list-style-type: none"> • eight (8) core units • five (5) elective units which must be selected from the elective units listed below. <p>Where the full qualification is not completed, a VET Statement of Attainment will be issued for each unit successfully completed.</p>
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Unit of competency code	Unit of competency title	Field of Education code (six-digit)	Pre-requisite	Nominal hours
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Core units

VU23579	Develop critical path processes for productivity and scheduling of prefabricated building systems	040303	Nil	80
VU23580	Manage prefabricated timber building systems	040303	Nil	80
VU23581	Apply building codes and standards for prefabricated building systems	040305	Nil	60
VU23585	Use building information modelling (BIM) technologies for a project	040301	Nil	60
VU23582	Manage construction project costs and contracts	080315	Nil	60
BSBPMG540	Manage project integration	080315	Nil	60
CPCBC4012	Read and interpret plans and specifications	040301	Nil	30
CPCBC4052	Lead and manage teams in the building and construction industry	040303	Nil	50

Elective units

CPCBC4018	Apply site surveys and set-out procedures to building and construction projects	040305	Nil	40
VU23584	Use mixed or blended reality technologies	020115	Nil	20
BSBPMG427	Apply project procurement procedures	080315	Nil	40



CPPBDN4110	Set up BIM-capable software and files for building design drafting projects	080905	Nil	40
BSBPMG533	Manage project costs	080315	Nil	40
TLIL5019	Implement and monitor transport logistics	089901	Nil	40
TLID0041	Plan and conduct specialised lift	030717	Nil	40
CPCMCM8001	Plan and manage complex projects	080315	Nil	60
MEM29012	Access and use a digital twin for operational purpose	030101	Nil	50
Total nominal hours				660-710

Standard 5.11 AQTF 2021 Standards for Accredited Courses

5.2 Entry requirements

Course in Onsite Installation of Prefabricated Building Systems (Timber)

There are no entry requirements for the 22634VIC Course in Onsite Installation of Prefabricated Building Systems (Timber).

Learners are best equipped to achieve the outcomes of the Course in Onsite Installation of Prefabricated Building Systems (Timber), if they have minimum language, literacy and numeracy skills that are equivalent to level 2 of the Australian Core Skills Framework (ACSF). ACSF detail may be accessed from [here](#).

Learners with language, literacy and numeracy skills at lower levels than those suggested may require additional support to successfully undertake the course.

Diploma of Project Management for Prefabricated Building Systems (Timber)

Entrants to this course must have:

- the qualification CPC40120 Certificate IV in Building and Construction **OR** equivalent
- a higher education qualification relevant to the building and construction industry **OR**
- an equivalent level of competency gained from practical work experience in the building and construction industry.

Learners are best equipped to achieve the outcomes of the Diploma of Project Management of Prefabricated Building Systems (Timber), if they have minimum language, literacy and numeracy skills that are equivalent to level 3 of the Australian Core Skills Framework (ACSF). ACSF detail may be accessed from [here](#).



Learners with language, literacy and numeracy skills at lower levels than those suggested may require additional support to successfully undertake the course.

6. Assessment

Standard 5.12 and 5.14 AQTF 2021 Standards for Accredited Courses

6.1 Assessment strategy

All assessment, including Recognition of Prior Learning (RPL), must be compliant with the requirements of:

- Standard 1 of the AQTF: Essential Conditions and Standards for Initial/Continuing Registration and Guidelines 4.1 and 4.2 of the VRQA Guidelines for VET Providers,

or

- the Standards for Registered Training Organisations 2015 (SRTOs),

or

- the relevant standards and Guidelines for RTOs at the time of assessment.

The nature of work undertaken in the construction industry is hands-on and practical and therefore, the assessment strategies should reflect this. It is recommended that assessment be a holistic process that integrates a number of units in practical tasks or projects. Assessment strategies should reflect a range of variables, the underpinning skills and knowledge and the assessment requirements specified in each unit. Assessment strategies should be designed to:

- cover a range of skills and knowledge required to demonstrate the intended course outcomes
- be appropriate to the skills, knowledge, methods of delivery and needs/characteristics of learners
- assist assessors to interpret evidence consistently
- recognise prior learning
- be equitable to all groups of learners
- be valid, reliable, flexible and fair
- inform learners of the context and purpose of the assessment and the assessment process
- provide feedback to learners about the outcomes of the assessment process and guidance given for future options
- allow reasonable time to complete a task which specifically reflects the industry context in which the task takes place.



	<p>Assessment strategies for the imported units from training packages or accredited courses should be consistent with the Assessment Requirements for the relevant training packages.</p> <p>Where not mandated in the units of competency, a range of appropriate assessment methods may be used to determine competency.</p> <p>The following methods are appropriate for the units of competency in the respective courses.</p> <p>Course in Onsite Installation of Prefabricated Building Systems (Timber)</p> <ul style="list-style-type: none"> • written and/or oral questioning to assess required knowledge • direct observation • simulated activities • problem solving activities. <p>Diploma of Project Management for Prefabricated Building Systems (Timber)</p> <ul style="list-style-type: none"> • written and/or oral questioning to assess required knowledge • direct observation • analysis of responses to case studies and scenarios/problem solving activities • presentations and discussions • third-party reports that confirm that tasks have been completed to an acceptable level based on the organisation's expectations and that the evidence is based on real-work practices.
<p>6.2 Assessor competencies</p>	<p>Assessment must be undertaken by a person or persons in accordance with:</p> <ul style="list-style-type: none"> • Standard 1.4 of the AQTF: Essential Conditions and Standards for Initial/Continuing Registration and Guidelines 3 of the VRQA Guidelines for VET Providers, <p>or</p> <ul style="list-style-type: none"> • the Standards for Registered Training Organisations 2015 (SRTOs), <p>or</p> <ul style="list-style-type: none"> • the relevant standards and Guidelines for RTOs at the time of assessment. <p>Units of competency imported from training packages or accredited courses must reflect the requirements for assessors specified in that training package or accredited course.</p>



7. Delivery	Standards 5.12, 5.13 and 5.14 AQTF 2021 Standards for Accredited Courses
<p>7.1 Delivery modes</p>	<p>There are no restrictions on the delivery for the Course in Onsite Installation of Prefabricated Building Systems (Timber) and the Diploma of Project Management for Prefabricated Building Systems (Timber).</p> <p>Both courses may be delivered either on a full-time or part-time basis using a combination of delivery modes, including:</p> <ul style="list-style-type: none"> • face-to-face, classroom-based delivery • blended (e-learning) delivery. <p>Delivery strategies should recognise the nature of the units and the learning styles of the participants. Some units may address common content, therefore integration may be appropriate. Occupational Health and Safety (OHS) / Work Health and Safety (WHS) must be incorporated at every opportunity.</p> <p>The objective of these courses is to develop practical competencies within an industry context. Practical demonstrations in the form of realistic, holistic projects that provide participants with a sense of 'real-work' experience are considered most suitable to achieving this aim. Delivery methods of units of competency may involve:</p> <ul style="list-style-type: none"> • practical exercises • group discussion • individual assignments • team-based assignments. <p>Delivery of units of competency imported from training packages or accredited courses should be contextualised to the prefabricated building environment, whilst ensuring that the delivery guidelines are adhered to.</p>
<p>7.2 Resources</p>	<p>Training must be undertaken by a person or persons in accordance with:</p> <p>Standard 1.4 of the AQTF: Essential Conditions and Standards for Initial/Continuing Registration and Guideline 3 of the VRQA Guidelines for VET Providers,</p> <p>OR</p> <p>the Standards for Registered Training Organisations 2015 (SRTOs),</p> <p>OR</p> <p>the relevant standards and Guidelines for RTOs at the time of assessment.</p> <p>Course in Onsite Installation of Prefabricated Building Systems (Timber)</p> <p>Participants must have access to:</p>



- industry materials, tools, digital devices and equipment, including personal protective and safety equipment
- job requirements, including relevant plans and specifications
- relevant workplace policies and procedures which cover DFMA policies, guidelines and industry standards.

Diploma of Project Management for Prefabricated Building Systems (Timber)

Participants must have access to:

- project management tools
- relevant project information including plans, specifications and contracts
- communication equipment
- personal protective and safety equipment
- relevant workplace policies and procedures which cover DFMA policies, guidelines, industry standards, building codes and regulations.

The units of competency imported from training packages or accredited courses must reflect the requirements for resources/trainers specified in that training package or accredited course.

8. Pathways and articulation

Standard 5.10 AQTF 2021 Standards for Accredited Courses

Course in Onsite Installation of Prefabricated Building Systems (Timber)

Graduates may choose to undertake further study to recognise or extend their skill base for the installation of prefabricated timber building systems within the construction sector. This includes, but is not limited to:

- 22504VIC Certificate III in Prefabrication Installation.

Graduates may also choose to undertake further study in the broader construction sector including relevant certificate III or IV qualifications within the CPC Construction Plumbing and Services Training Package.

The course includes units from the CPC Training Package. Completion of those units provide credit transfers into any qualifications or courses containing those units.

There are no formal articulation arrangements in place at the time of accreditation.

Diploma of Project Management for Prefabricated Building Systems (Timber)

Graduates may choose to undertake more generalist study in project management within the construction sector including, but not limited to:



	<ul style="list-style-type: none"> • Bachelor of Applied Science (Construction Management) • CPC50220 Diploma of Building and Construction (Building) • CPC60220 Advanced Diploma of Building and Construction (Management). <p>There are no formal articulation arrangements in place at the time of accreditation.</p> <p>The course include units of competency from a range of training packages. Completion of those units provide credit transfers/pathways into any qualifications or courses containing those units. Similarly, units of competency completed from other qualification or courses and represented within the course structures may also be recognized and receive credit transfer.</p> <p>Refer to the AQF 2nd Edition, 2013 Pathways Policy here.</p>
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<p>9. Ongoing monitoring and evaluation</p>	<p>Standard 5.15 AQTF 2021 Standards for Accredited Courses</p>
	<p>The CMM – Building Industries is responsible for the ongoing monitoring and evaluation of the Course in Onsite Installation of Prefabricated Building Systems (Timber) and Diploma of Project Management for Prefabricated Building Systems (Timber).</p> <p>Formal course evaluations will be undertaken halfway through the accreditation period and will be based on student and teacher evaluation surveys and industry stakeholder surveys/consultations.</p> <p>The VRQA will be notified of any changes to either course.</p>



Section C – Units of competency

22634VIC Course in Onsite Installation of Prefabricated Building Systems (Timber)

The list of the units of competency imported from Training Packages include:

- CPCCWHS2001 Apply WHS requirements, policies & procedures in the construction industry
- CPCCCA3002 Carry out setting out
- CPCCOM2001 Read and interpret plans and specifications
- CPCWHS1001 Prepare to work safely in the construction industry
- CPCCSH2003 Apply and install sealant and sealant devices
- CPCCWC3003 Install dry wall passive fire-rated systems.

The list of the units of competency imported from accredited courses include:

- VU22702 Assemble and install panelised components onsite.

Units of competency developed for the course, which comply with the AQTF 2021 Standards for Accredited Courses - Unit of Competency Template and detailed in this section include:

- VU23583 Use digital devices for prefabricated element installation.

22635VIC Diploma of Project Management for Prefabricated Building Systems (Timber)

The list of the units of competency imported from Training Packages include:

- BSBPMG427 Apply project procurement procedures
- BSBPMG533 Manage project costs
- BSBPMG540 Manage project integration
- CPCCBC4012 Read and interpret plans and specifications
- CPCCBC4018 Apply site surveys and set-out procedures to building and construction projects
- CPCCBC4052 Lead and manage teams in the building and construction industry
- CPCMCM8001 Plan and manage complex projects
- CPPBDN4110 Set up BIM-capable software and files for building design drafting projects
- MEM29012 Access and use a digital twin for operational purpose
- TLID0041 Plan and conduct specialised lift
- TLIL5019 Implement and monitor transport logistics

Units of competency developed for the course, which comply with the AQTF 2021 Standards for Accredited Courses - Unit of Competency Template and detailed in this section include:

- VU23579 Develop critical path processes for productivity and scheduling of prefabricated building systems
- VU23580 Manage prefabricated timber building systems
- VU23581 Apply building codes and standards for prefabricated building systems
- VU23582 Manage construction project costs and contracts
- VU23584 Use mixed or blended reality technologies
- VU23585 Use building information modelling (BIM) technologies for a project.

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VU23579 Develop critical path processes for productivity
and scheduling of prefabricated building systems

Unit code	VU23579
Unit title	Develop critical path processes for productivity and scheduling of prefabricated building systems
Application	<p>This unit describes the performance outcomes, skills and knowledge required to develop critical path processes for productivity and scheduling for construction projects comprised of prefabricated timber building systems.</p> <p>It requires the ability to develop critical path timeframes and associated project management strategies, apply critical path processes and evaluate the project plan.</p> <p>The work context relates to Design for Manufacture and Assembly (DFMA) construction projects comprised of prefabricated timber building systems, excluding National Construction Code (NCC) Class 1 buildings. Height restrictions of up to twenty-five metres (or approximately eight storeys) apply.</p> <p>This unit applies to individuals working in management roles within prefabricated timber construction and related industries. No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.</p>
Pre-requisite Unit(s)	N/A
Competency Field	N/A
Unit Sector	N/A

Element	Performance Criteria
Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the assessment requirements.
1. Develop critical path timeframe	<p>1.1 Determine scope of relevant program contractual requirements for construction project</p> <p>1.2 Determine effect of implementing milestones when using critical path processes and programs</p> <p>1.3 Estimate and assign timelines to project activities and milestones</p> <p>1.4 Validate timelines and allocation of resources in consultation with key stakeholders</p> <p>1.5 Determine and plan for scheduling variations to project according to workplace procedures</p>

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VU23579 Develop critical path processes for productivity
and scheduling of prefabricated building systems

- 2. Develop project management strategies
 - 2.1 Review project specifications and determine resource requirements
 - 2.2 Distinguish interdependent stages of the project, determine sequential and concurrent activities, and develop relational scheduling
 - 2.3 Formulate appropriate communication strategy to inform key stakeholders of the critical path timeframe and rollout
 - 2.4 Document project activities and milestones, in accordance with critical path model
 - 2.5 Select and prioritise activities where efficiencies can be maximised, including logistical arrangements
 - 2.6 Establish costs involved to alter the critical path timeframe and reconfirm benefit to project prior to final alteration
- 3. Apply critical path processes
 - 3.1 Develop and test sequencing of activities for optimal project efficiency
 - 3.2 Determine critical and non-critical activities relevant to the project
 - 3.3 Develop performance standards and benchmark results, including shortest and longest timeline outcomes
 - 3.4 Establish communication requirements for internal and external stakeholders for project duration
- 4. Evaluate project plan
 - 4.1 Assess compliance and scope of work, in accordance with building codes and standards, and design specifications and assembly procedures
 - 4.2 Review plan for project rollout and performance markers and determine areas for improvement, in consultation with key stakeholders
 - 4.3 Record and report on review findings to ensure improvement to project planning processes

Range of Conditions

N/A

Foundation Skills

Foundation Skills describe the language, literacy, numeracy and employability skills that are essential to performance but not explicit in the performance criteria.

Skill	Description
Reading skills to:	<ul style="list-style-type: none"> interpret construction project documentation
Problem-solving skills to:	<ul style="list-style-type: none"> resolve activity clashes in schedule modelling
Digital literacy skills to:	<ul style="list-style-type: none"> use computer hardware, software and/or devices to document project plan

Unit Mapping Information

Code and Title Current Version	Code and Title Previous Version	Comments
VU23579 Develop critical path processes for productivity and scheduling of prefabricated building systems	VU22675 Manage critical path processes for productivity and scheduling of prefabricated building systems	Equivalent unit

Assessment Requirements

Title

Assessment Requirements for VU23579 Develop critical path processes for productivity and scheduling of prefabricated building systems

Performance Evidence

The learner must demonstrate the ability to complete tasks outlined in the elements, performance criteria and foundation skills of this unit including evidence of the ability to develop critical path processes for productivity and scheduling of prefabricated timber building systems for one project. In so doing the candidate must:

- determine key stakeholders
- develop timing and track timeframes
- determine key milestones
- track project against timeframes
- identify the critical path and any critical clash
- identify conflicting tasks or timing conflicts.

Knowledge Evidence

The learner must be able to apply essential knowledge required to effectively do the task outlined in the elements, performance criteria and foundation skills of this unit, manage the task and manage contingencies in the context of the work role. This includes knowledge of:

- common stakeholders involved in timber prefabricated construction
- interdependent stages of the building process
- elements of an effective communication strategy
- methods of critical path analysis
- benefits of developing a critical path plan for a project
- types and features of contracts associated with prefabricated timber building system projects
- relevant legislative and OHS/WHS requirements, codes and practices
- relevant legislative environmental protection
- relevant classes of building and types of construction related to prefabricated timber building systems
- relevant Australian standards
- types and features of architectural, engineering and manufacturers' plans, working drawings and assembly specifications and guidelines
- principles of structural physics, including design principles and the behaviour of structures under stress, strain, compression, bending or combined actions
- types and characteristics of building and fixing materials and effects of construction performance
- project management techniques that may offer project efficiencies, including:

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VU23579 Develop critical path processes for productivity and scheduling of prefabricated building systems

	<ul style="list-style-type: none">○ awareness of contractor involvement and its effect on contractor engagement and contract alignment○ sequencing of assembly○ application of concurrent activities○ consideration of logistical issues such as numbers of trades/installers on site○ setting and monitoring realistic timeframes● effect of implementing milestones when using critical path processes and programs● common variations to planned construction projects (including site conditions, weather, cost variations, planning or building approval, manufacturer/supplier or builder termination or liquidation, availability of building materials/products transportation or logistical issues/delays)● impact of project variations to project operations and potential outcomes● types and purpose of sustainable building practices and waste management processes.
Assessment Conditions	<p>Skills in this unit must be demonstrated in a prefabricated timber building and construction workplace or simulated environment that utilises a DFMA approach, complies with standard and authorised work practices, safety requirements and environmental constraints. This includes access to relevant:</p> <ul style="list-style-type: none">● project planning and management tools, equipment and materials● NCC codes, standards, regulations and guidelines● relevant workplace procedures● relevant product and manufacturing specifications, codes, standards, manuals and reference materials. <p>No specialist vocational competency requirements for assessors apply to this unit.</p>

Unit code	VU23580
Unit title	Manage prefabricated timber building systems
Application	<p>This unit describes the performance outcomes, skills and knowledge required to manage a construction project comprised of prefabricated timber elements and materials.</p> <p>It requires the ability to plan and prepare for construction, manage prefabricated timber construction including storage requirements, logistical operations, National Construction Code (NCC) compliance and final evaluation of construction performance.</p> <p>The work context relates to Design for Manufacture and Assembly (DFMA) construction projects comprised of prefabricated timber building systems, excluding National Construction Code (NCC) Class 1 buildings. Height restrictions of up to twenty-five metres (or approximately eight storeys) apply.</p> <p>This unit applies to individuals working in management roles within prefabricated timber construction and related industries.</p> <p>No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.</p>
Pre-requisite Unit(s)	VU23579 Develop critical path processes for productivity and scheduling of prefabricated building systems
Competency Field	N/A
Unit Sector	N/A

Element	Performance Criteria
Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the assessment requirements.

1. Plan and prepare for construction project	1.1	Evaluate requirements of relevant architectural, engineering and manufacturers' plans, drawings and assembly specifications and guidelines
	1.2	Determine scope of work for prefabricated timber construction project
	1.3	Implement, review and amend site containment, exclusion and signage strategies and barricade requirements to maximise awareness of, and minimise impacts on the public, as required

- 1.4 Implement site Occupational Health and Safety (OHS)/Workplace Health and Safety (WHS) and environmental protection requirements in accordance with relevant policies and procedures
- 1.5 Implement continuous improvement strategies to maximise building life cycle efficiency
- 1.6 Determine work requirements of prefabricated timber construction and adherence to relevant critical path timelines and processes
- 1.7 Analyse and establish resource requirements for construction project, including building materials
- 1.8 Confirm appropriate tools and equipment for installation and assembly with relevant contractors
- 1.9 Organise crane and/or specialised lifting equipment for construction and installation, in accordance with relevant OHS/WHS and local municipal authority requirements, as appropriate
2. Determine storage requirements
 - 2.1 Evaluate storage requirements according to relevant architectural, engineering and manufacturers' plans, drawings and assembly specifications and guidelines
 - 2.2 Plan and organise staging and sequencing of building systems in accordance with assembly/installation requirements and material characteristics of timber elements
 - 2.3 Confirm prefabricated timber construction panels and elements are delivered and stored in the proper sequence for installation and assembly and protected from adverse weather, heat, cold and fire
3. Manage logistical operations
 - 3.1 Confirm building site surveys and set-out procedures are in place and comply with scope of work for prefabricated timber assembly systems
 - 3.2 Plan and organise appropriate logistical operations for equipment and construction materials from manufacturers and suppliers in accordance with relevant critical path timelines and processes for the construction
 - 3.3 Organise crane delivery and equipment access as appropriate to lift for horizontal and vertical movements of material, comply with relevant OHS/WHS and local municipal authorities

- 3.4 Implement pedestrian and traffic management plan for site and site perimeter to minimise risks to worksite personnel and public, as required
- 4. Manage prefabricated timber construction
 - 4.1 Analyse and confirm building materials and fixing specifications are in place
 - 4.2 Monitor sequencing process for project assembly and installation
 - 4.3 Coordinate relevant manufacturers, suppliers, installers and relevant other trades, in accordance with systems and compliance requirements and site conditions
 - 4.4 Develop and implement appropriate ongoing work site communication protocols and briefings, including feedback for reference design improvement, and management of contingencies, for duration of project
 - 4.5 Determine and organise compliant installation methodology for prefabricated timber elements, including propping considerations, equipment, fixing materials, sealants, tapes and adhesives in accordance with design specifications, assembly procedures, guidelines, and where relevant fire, acoustics and waterproofing requirements
 - 4.6 Oversee lift performance to ensure appropriate staging and sequencing is applied and integrity of panels & structures are maintained and documented at point of assembly
- 5. Comply with NCC and relevant Australian standards
 - 5.1 Verify compliance inspection stages for construction, in accordance with NCC requirements, Victorian regulatory framework and, assembly procedures
 - 5.2 Inspect installation of walls, ceilings, openings, penetrations and other building elements to confirm that materials and work comply with the authorised design plan and building standards
 - 5.3 Confirm fire rating, acoustics and waterproofing standards, of prefabricated timber elements and structures, and installation is in accordance with NCC codes and standards, and design specifications and assembly procedures

- 6. Evaluate project performance
 - 6.1 Assess compliance and scope of work, in accordance with NCC, Victorian regulatory framework and Australian standards
 - 6.2 Review project assembly and installation processes and procedures and determine areas for improvement, in consultation with key stakeholders
 - 6.3 Record and report on review findings to ensure continuous improvement processes are implemented on further projects

Range of Conditions

N/A

Foundation Skills

Foundation Skills describe the language, literacy, numeracy and employability skills that are essential to performance but not explicit in the performance criteria.

Skill	Description
Reading skills to:	<ul style="list-style-type: none"> analyse and interpret documentation from a wide range of sources
Problem-solving skills to:	<ul style="list-style-type: none"> resolve operational construction issues and situations
Teamwork skills to:	<ul style="list-style-type: none"> monitor and oversee the performance of systems and personnel involved in the project
Technology skills to:	<ul style="list-style-type: none"> operate software to plan and schedule tasks
Digital literacy skills to:	<ul style="list-style-type: none"> use devices to communicate construction requirements with stakeholders

**Unit Mapping
Information**

Code and Title Current Version	Code and Title Previous Version	Comments
VU23580 Manage prefabricated timber building systems	VU22676 Manage prefabricated timber building systems	Equivalent unit

Assessment Requirements

Title	Assessment Requirements for VU23580 Manage prefabricated timber building systems
Performance Evidence	The learner must demonstrate the ability to complete tasks outlined in the elements, performance criteria and foundation skills of this unit including evidence of the ability to manage one prefabricated timber building construction project classed as a timber project which include secondary structural elements such as steel, concrete or hybrid system.
Knowledge Evidence	<p>The learner must be able to apply essential knowledge required to effectively do the task outlined in the elements, performance criteria and foundation skills of this unit, manage the task and manage contingencies in the context of the work role. This includes knowledge of:</p> <ul style="list-style-type: none"> • relevant legislative and OHS/WHS requirements, codes and practices • relevant legislative environmental protection requirements • building inspection stages and associated compliance requirements • nature of the contracts upon which building activities based • awareness of importance of early contractor involvement and its effect on contractor engagement and contract alignment • types of building classification associated with prefabricated timber construction • relevant Australian standards • types and features of architectural, engineering and manufacturers' plans, working drawings and assembly specifications and guidelines • principles of structural physics, including design principles and the behaviour of structures under stress, strain, compression, bending or combined actions • range of prefabricated building elements and their interconnectedness • methods of fire and weather protection of prefabricated material during assembly • types and characteristics of building and fixing materials and effects of construction performance • types and purpose of sustainable building practices and waste management processes • crane/lifting protocols, permit and procedures • types of prefabricated timber construction assembly methods and stage and sequencing processes • storage requirements for prefabricated timber materials and adverse effects of poor storage practices
Assessment Conditions	<p>Skills in this unit must be demonstrated in a prefabricated timber building and construction workplace or simulated environment that utilises a DFMA approach, complies with standard and authorised work practices, safety requirements and environmental constraints. This includes access to relevant:</p> <ul style="list-style-type: none"> • project parameters

- tools, equipment and prefabricated product/materials
- codes, standards, regulations and guidelines
- workplace procedures
- product and manufacturing specifications, codes, standards, manuals and reference materials.

No specialist vocational competency requirements for assessors apply to this unit.

Unit code	VU23581
Unit title	Apply building codes and standards to prefabricated timber building systems
Application	<p>This unit describes the performance outcomes, skills and knowledge required to apply building codes and standards to construction projects that utilise prefabricated timber building systems.</p> <p>It requires the ability to interpret and apply architectural, engineering and manufacturer's plans, drawings and design specifications to relevant National Construction Code (NCC) standards and codes for engineered timber structures, including those related to fire safety, waterproofing and acoustics.</p> <p>The work context relates to Design for Manufacture and Assembly (DFMA) construction projects comprised of prefabricated timber building systems, excluding National Construction Code (NCC) Class 1 buildings. Height restrictions of up to twenty-five metres (or approximately eight storeys) apply.</p> <p>This unit applies to individuals working in management roles within prefabricated timber construction and related industries. No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.</p>
Pre-requisite Unit(s)	N/A
Competency Field	N/A
Unit Sector	N/A

Element	Performance Criteria
Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the assessment requirements.
1. Interpret relevant building standards and codes for prefabricated timber construction compliance	<p>1.1 Determine National Construction Code (NCC) standards and codes relevant to the construction of prefabricated timber building systems</p> <p>1.2 Confirm compliance of building materials and elements comprising prefabricated timber structure with relevant standards and codes</p> <p>1.3 Confirm strength and stress grading of timber products for the project in accordance with design specifications and relevant building standards and codes</p>

- 1.4 Confirm prefabricated timber structure complies with relevant building standards and codes requirements related to durability and climatic conditions
- 1.5 Develop and implement compliant installation methodology for materials and fixing devices in accordance with design specifications, assembly procedures and relevant building standards and codes
2. Apply fire safety requirements for engineered timber system construction
 - 2.1 Inspect prefabricated timber construction material for compliance with relevant fire safety codes and standards and act on non-conformances identified
 - 2.2 Confirm barriers, sealants and sealant devices are applied, in accordance with design specifications & assembly procedures & guidelines
 - 2.3 Confirm fire rating, including fire resistance levels and smoke detection, is in accordance with relevant building standards and design specifications and assembly procedures, where relevant
 - 2.4 Record and report staged inspections of assembly and installation for fire safety compliance according to NCC requirements
3. Apply waterproofing and acoustic requirements for engineered timber system construction
 - 3.1 Inspect and confirm prefabricated timber construction material complies with relevant waterproofing and acoustic standards and guidelines
 - 3.2 Confirm sealants, sealant devices, tapes and adhesives are applied, in accordance with design specifications, assembly procedures, and guidelines and comply with structural, waterproofing and acoustics and requirements
 - 3.3 Record and report staged inspections of assembly and installation for waterproofing and acoustics compliance according to NCC requirements

Range of Conditions

N/A

Foundation Skills

Foundation Skills describe the language, literacy, numeracy and employability skills that are essential to performance but not explicit in the performance criteria.

Skill	Description
Reading skills to:	<ul style="list-style-type: none"> locate and interpret building regulatory information from a wide range of sources
Problem-solving skills to:	<ul style="list-style-type: none"> resolve operational and compliance construction issues
Digital literacy skills to:	<ul style="list-style-type: none"> use computer hardware, software and/or devices to document project progress

Unit Mapping Information

Code and Title Current Version	Code and Title Previous Version	Comments
VU23581 Apply building codes and standards for prefabricated timber building systems	VU22677 Apply building codes and standards for prefabricated timber building systems	Equivalent unit

Assessment Requirements	
Title	Assessment Requirements for VU23581 Apply building codes and standards for prefabricated timber building systems
Performance Evidence	The learner must demonstrate the ability to complete tasks outlined in the elements, performance criteria and foundation skills of this unit including evidence of the ability to apply building codes and standards to one (1) prefabricated timber building project.
Knowledge Evidence	<p>The learner must be able to apply essential knowledge required to effectively do the task outlined in the elements, performance criteria and foundation skills of this unit, manage the task and manage contingencies in the context of the work role. This includes knowledge of:</p> <ul style="list-style-type: none"> • relevant NCC standards, including AS/NZ standards for prefabricated timber construction, including: <ul style="list-style-type: none"> ○ fire safety codes and performance requirements ○ water proofing and acoustic performance requirements • types and characteristics of building materials relevant to timber construction design and installation • types of building elements comprising a timber construction • the importance and use of structural physics, including design principles and the behaviour of structures under stress, strain, compression, bending or combined actions • relevant work, health and safety (WHS)/occupational health and safety (OHS) legislation, regulations, standards and codes • building classifications relevant to prefabricated timber construction • nature of building and fixing materials and effects on construction performance • range of climatic conditions and effects on timber building durability • sustainable building practices and waste management processes.
Assessment Conditions	<p>Skills in this unit must be demonstrated in a prefabricated timber building and construction workplace or simulated environment that utilises a DFMA approach, complies with standard and authorised work practices, safety requirements and environmental constraints. This includes access to relevant:</p> <ul style="list-style-type: none"> • tools, equipment and prefabricated product/materials • legislation, regulations, standards, codes and guidelines • workplace procedures • product and manufacturing specifications, codes, standards, manuals and reference materials. <p>Assessor requirements</p>

No specialist vocational competency requirements for assessors apply to this unit.

Unit code	VU23582		
Unit title	Manage construction project costs and contracts		
Application	<p>This unit describes the performance outcomes, skills and knowledge required to manage the costs and contracts of a construction project comprised of prefabricated timber elements and materials.</p> <p>It requires the ability to develop a project management approach, manage project costs, contracts and contractor relationships and determine opportunities for improvement.</p> <p>The work context relates to Design for Manufacture and Assembly (DFMA) construction projects comprised of prefabricated timber building systems, excluding National Construction Code (NCC) Class 1 buildings. Height restrictions of up to twenty-five metres (or approximately eight storeys) apply.</p> <p>This unit applies to individuals working in management roles within prefabricated timber construction and related industries.</p> <p>No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.</p>		
Pre-requisite Unit(s)	NA		
Competency Field	NA		
Unit Sector	NA		
Element	Performance Criteria		
Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the assessment requirements.		
1	Develop project management approach	1.1	Identify project management scope, outcomes, contracts, costs/budgets, quality management system (QMS) and timeline dates in accordance with project plan and workplace procedures
		1.2	Identify resources and stakeholders, assess availability and allocate tasks in accordance with project plan and workplace procedures
		1.3	Prepare technical specifications to meet project timeline dates in accordance with project plan and workplace procedures
		1.4	Establish agreements with service providers and stakeholders in accordance with project plan and workplace procedures

		1.5	Establish project administration requirements related to documentation, file ownership and storage of physical and digital records
		1.6	Prepare and distribute integrated overview plan for stakeholder review, in accordance with project plan and workplace procedures
		1.7	Identify areas for potential overrun and resource complications and assess associated risks in accordance with project plan and workplace procedures
		1.8	Obtain documentation, materials and equipment required for the project in accordance with project plan and workplace procedures
		1.9	Organise communication processes, including meetings, to meet the needs of project stakeholders and service providers, in accordance with project plan and workplace procedures
2	Manage project costs	2.1	Implement agreed financial management processes and procedures to monitor actual expenditure and control costs
		2.2	Apply cost analysis methods and tools to identify cost variations, evaluate options and recommend actions to a higher project authority
		2.3	Modify budget to reflect cost variations and determine revised financial objectives
3	Manage project contracts	3.1	Manage performance of contractual obligations in accordance with agreed contract and project plan
		3.3	Review performance by contractor using agreed processes, analyse any variances and implement agreed changes, to achieve project objectives within legal framework of contract
		3.4	Prepare and present reports of project progress and outcomes in accordance with project plan and standard organisational procedures
		3.5	Finalise and conclude contracts according to project plan and contractual requirements
4	Manage relationships with contractors	4.1	Implement and communicate code of conduct to contractors to manage relationships between parties ethically, transparently and in accordance with legal requirements, policies and procedures
		4.2	Establish and apply regular and formalised communication processes with contractors

		4.3	Establish and maintain sound business relationships with contractors to ensure effective communication and the early identification of potential service delivery problems
		4.4	Manage contractual disputes that arise in accordance with contractual requirements
5	Determine opportunities for improvement	5.1	Analyse effectiveness and benefits of contracting process and related service delivery
		5.2	Identify and communicate opportunities for process and service delivery improvements to appropriate senior personnel

Range of Conditions

N/A

Foundation Skills

Foundation Skills describe the language, literacy, numeracy and employability skills that are essential to performance but not explicit in the performance criteria.

Skill	Description
Reading skills to:	<ul style="list-style-type: none"> analyse and interpret legal and financial documentation from a wide range of sources
Oral communication skills to:	<ul style="list-style-type: none"> use questioning to identify and confirm requirements use language appropriate to audience and stakeholder understanding establish rapport with stakeholders and secure engagement with the project
Teamwork skills to:	<ul style="list-style-type: none"> engage project participants to achieve established targets
Technology skills to:	<ul style="list-style-type: none"> use a variety of software programs to communicate with stakeholders and prepare formal documents

Unit Mapping Information

New unit, no equivalent unit.

Assessment Requirements	
Title	Assessment Requirements for VU23582 Manage construction project costs and contracts
Performance Evidence	The learner must demonstrate the ability to complete tasks outlined in the elements, performance criteria and foundation skills of this unit including evidence of the ability to manage the costs and contracts of one prefabricated timber building construction project.
Knowledge Evidence	<p>The learner must be able to apply essential knowledge required to effectively do the task outlined in the elements, performance criteria and foundation skills of this unit, manage the task and manage contingencies in the context of the work role. This includes knowledge of:</p> <ul style="list-style-type: none"> • common documentation, processes and procedures related to project administration • key features, uses and benefits of project contracts and budgets • benefits of early contractor involvement including impact on contract alignment • benefits and features of financial management practices, including requirements for offsite payment and securing early payment • types of tools and related capability for analysis of project performance • types of contingencies that negatively impact project outcomes, their limiting factors and associated risk profiles • importance and features of stakeholder communication strategies to support project effectiveness.
Assessment Conditions	<p>Skills in this unit must be demonstrated in a prefabricated timber building and construction workplace or simulated environment that utilises a DFMA approach, complies with standard and authorised work practices, safety requirements and environmental constraints. This includes access to relevant:</p> <ul style="list-style-type: none"> • project parameters and relevant documentation • tools, equipment and materials • NCC and Australian Standard codes, standards, regulations and guidelines • workplace procedures • product and manufacturing specifications, codes, standards, manuals and reference materials. <p>Assessor requirements</p> <p>No specialist vocational competency requirements for assessors apply to this unit.</p>

Unit code	VU23583		
Unit title	Use digital devices for prefabricated element installation		
Application	<p>This unit describes the performance outcomes, skills and knowledge required to use a range of digital devices to facilitate the assembly and installation of prefabricated timber elements for construction purposes.</p> <p>It requires the ability to set up and operate digital devices for connectivity and access to information for prefabricated timber product installation.</p> <p>The work context relates to Design for Manufacture and Assembly (DFMA) construction projects comprised of prefabricated timber building systems, excluding National Construction Code (NCC) Class 1 buildings. Height restrictions of up to twenty-five metres (or approximately eight storeys) apply. Prefabricated timber elements combine to create a range of building structures including residential houses, commercial/industrial complexes, and civil buildings that service a variety of sectors such as education, health, and transport.</p> <p>The unit applies to individuals working as installers of prefabricated timber elements who work in an onsite construction setting.</p> <p>No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.</p>		
Pre-requisite Unit(s)	N/A		
Competency Field	N/A		
Unit Sector	N/A		
Element	Performance Criteria		
Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the assessment requirements.		
1	Set up digital device for use	1.1	Identify and set up basic operating, security and menu settings
		1.2	Navigate and manipulate the screen environment for efficient operation
		1.3	Customise screen icons and access to applications where applicable

		1.4	Identify more advanced features available and use as required
		1.5	Identify the purpose, specific functions and key features of common digital systems and tools, and operate them effectively to complete given tasks
2	Use digital device for connectivity and access to information	2.1	Connect to external digital data sources to retrieve, copy, move or save information
		2.2	Review, interpret and comprehend symbols, text, numbers or letters to determine and follow design/installation requirements
		2.3	Operate digital device to complete installation task
		2.4	Access audio and or visual devices to view and or play a multimedia file
		2.5	Shut down digital devices, according to manufacturer instructions

Range of Conditions

N/A

Foundation Skills

Foundation Skills describe the language, literacy, numeracy and employability skills that are essential to performance but not explicit in the performance criteria.

Skill	Description
Reading skills to:	<ul style="list-style-type: none">locate and interpret information from links to data sources
Technology skills to:	<ul style="list-style-type: none">apply specific functions and key features of common digital systems and tools, and operates them effectively to complete routine tasks

**Unit Mapping
Information**

New unit, no equivalent unit

Assessment Requirements	
Title	Assessment Requirements for VU23583 Use digital devices for prefabricated element installation
Performance Evidence	<p>The learner must demonstrate the ability to complete tasks outlined in the elements, performance criteria and foundation skills of this unit including evidence of the ability to use a digital device to access prefabricated element installation data for installation purposes on two occasions. In so doing the candidate must:</p> <ul style="list-style-type: none"> • turn on a digital device • use menu features and navigate a graphical user interface • source information using connectivity methods consisting of QR codes and bar codes. • use device features to perform installation tasks • save work results.
Knowledge Evidence	<p>The learner must be able to apply essential knowledge required to effectively do the task outlined in the elements, performance criteria and foundation skills of this unit, manage the task and manage contingencies in the context of the work role. This includes knowledge of:</p> <ul style="list-style-type: none"> • the capabilities and connectivity requirements of digital devices including: <ul style="list-style-type: none"> ○ audio-visual devices ○ peripheral devices ○ storage devices • processes related to digital device start up, operation and shut down • basic security functions • meaning of a range of common digital screen icons and symbols • software commands and associated operation • types and features of digital tools and functions • types and features of digital device settings • types of digital data sources • typical installation methods used for prefabricated timber elements.
Assessment Conditions	Skills in this unit must be demonstrated in a prefabricated timber building and construction workplace or simulated environment that utilises a DFMA approach, complies with standard and authorised work

practices, safety requirements and environmental constraints. This includes access to relevant:

- digital devices
- internet connection
- device specific application currently used in industry to source information
- codes, standards, regulations and guidelines related to installation of prefabricated timber element product
- workplace procedures
- prefabricated timber element product and manufacturing specifications, codes, standards, manuals and reference materials.

Assessment must be in the form of:

- direct observation of demonstrated tasks
- written and / or oral questioning

Both practical skills and knowledge must be assessed.

Assessor requirements

No specialist vocational competency requirements for assessors apply to this unit.

Unit code	VU23584
Unit title	Use mixed or blended reality technologies
Application	<p>This unit describes the skills and knowledge to select and apply mixed or blended reality technologies with relevant building information modelling (BIM) technology.</p> <p>It requires the ability to explore the range of technology, hardware and software involved and explores the applications of the technology in a range of proposed applications.</p> <p>This unit is applicable to individuals using mixed or blended reality technologies to support project management through the visualisation and manipulation of interactive project information for a specific project that are superimposed across real and virtual realities.</p> <p>No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.</p>
Pre-requisite Unit(s)	N/A
Competency Field	N/A
Unit Sector	N/A

Element		Performance Criteria	
Elements describe the essential outcomes of a unit of competency.		Performance criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the assessment requirements.	
1	Explore mixed or blended reality technologies	1.1	Research the range of mixed and blended reality technologies to meet project requirements
		1.2	Identify a range of contexts and relevant technology interactions where mixed or blended reality technologies can project visual images of the project components
		1.3	Determine hardware, software and infrastructure requirements for implementing the mixed or blended reality technologies
2	Apply mixed or blended technology to project requirements	2.1	Identify the project and related design concepts and features for demonstration
		2.2	Select the appropriate hardware and software for the

			application and audience
		2.3	Ensure the relevant infrastructure requirements to support the demonstration are in place and operational for the application and audience
		2.4	Use the mixed or blended reality technology to promote how the technology can facilitate the planning process, project management and identifying potential issues
		2.5	Apply the mixed or blended reality technology to demonstrate to an audience the completed and modular components of the project design, together with their interactions

Range of Conditions

N/A

Foundation Skills

Foundation Skills describe the language, literacy, numeracy and employability skills that are essential to performance but not explicit in the performance criteria.

Skill	Description
Reading skills to:	<ul style="list-style-type: none"> interpret key information from specifications and guidelines
Oral communication skills to:	<ul style="list-style-type: none"> use language appropriate to audience and stakeholder understanding when demonstrating mixed or blended reality technology to audience

Unit Mapping Information

Code and Title Current Version	Code and Title Previous Version	Comments
VU23584 Use mixed or blended reality technologies	VU22679 Use mixed or blended reality technologies	Equivalent unit.

Assessment Requirements	
Title	Assessment Requirements for VU23584 Use mixed or blended reality technologies
Performance Evidence	<p>The learner must demonstrate the ability to complete tasks outlined in the elements, performance criteria and foundation skills of this unit including evidence of the ability to:</p> <ul style="list-style-type: none"> • select and apply mixed or blended technology to meet the requirements of a project.
Knowledge Evidence	<p>The learner must be able to apply essential knowledge required to effectively do the task outlined in elements and performance criteria of this unit, manage the task and manage contingencies in the context of the work role. This includes knowledge of:</p> <ul style="list-style-type: none"> • mixed or blended reality computer simulation packages • mixed or blended reality tools and equipment • hardware, software and infrastructure requirements • applications of mixed or blended reality technology tools and systems • architectural, engineering and manufacturers' plans, working drawings and assembly specifications and guidelines.
Assessment Conditions	<p>Skills in this unit must be demonstrated in a workplace or an environment where building information modelling (BIM) is applied. This includes access to:</p> <ul style="list-style-type: none"> • internet, information technology and BIM compatible software, • operational mixed or blended reality technologies • relevant reference materials. <p>Assessor requirements</p> <p>No specialist vocational competency requirements for assessors apply to this unit.</p>

Unit code	VU23585
Unit title	Use building information modelling (BIM) technology for a project
Application	<p>This unit describes the performance outcomes, skills and knowledge required to evaluate, select and apply a range of building information modelling (BIM) technologies for the lifecycle of a building or construction project.</p> <p>This unit applies to individuals who use BIM technologies to facilitate building or construction project management and add value to project deliverables through the design and implementation of effective collaborative models.</p> <p>No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.</p>
Pre-requisite Unit(s)	N/A
Competency Field	N/A
Unit Sector	N/A

Element		Performance Criteria	
Elements describe the essential outcomes of a unit of competency.		Performance criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the assessment requirements.	
1	Explore applications of building information modelling (BIM) for the project	1.1	Determine opportunities for applying BIM in the context of the project deliverables
		1.2	Identify the uses of BIM for the project design, documentation and specifications
		1.3	Determine the advantages and limitations of BIM for the project
		1.4	Evaluate the range of relevant BIM software that will assist to achieve project deliverables
		1.5	Determine skill levels and training requirements of project team to apply BIM for the project
2	Prepare to use BIM technology and	2.1	Identify scope of work and project duration for internal and external stakeholders

	terminology for project		
		2.2	Confirm project stakeholders impacted by BIM technology
		2.3	Confirm BIM functionality with other software programs according to organisational and project requirements
		2.4	Establish and communicate an appropriate collaborative model with stakeholders, including common data environment (CDE)
		2.5	Ensure integrity of data is maintained according to organisational procedures and project requirements
		2.6	Establish communication protocols to use relevant BIM data with project stakeholders according to project requirements and data sharing procedures
3	Apply BIM technology for a project	3.1	Communicate and collaborate with various stakeholders using required BIM models for the duration of the project
		3.2	Manipulate, share and contribute BIM data for the project according to organisational and project requirements
		3.3	Manage project contingencies according to workplace procedures
		3.4	Record and report BIM performance, project outcomes and areas for improvement according to organisational and project requirements

Range of Conditions

N/A

Foundation Skills

Foundation Skills describe the language, literacy, numeracy and employability skills that are essential to performance but not explicit in the performance criteria.

Skill	Description
Reading skills to:	<ul style="list-style-type: none"> interpret key information from design specifications, project brief and guidelines
Writing skills to:	<ul style="list-style-type: none"> document plans and communication protocols using clear language and presented in logically order
Oral communication skills to:	<ul style="list-style-type: none"> use questioning to identify and confirm requirements use language appropriate to audience and stakeholder understanding
Digital literacy skills to:	<ul style="list-style-type: none"> manipulate and operate software for mixed or blended reality programs

Unit Mapping Information

Code and Title Current Version	Code and Title Previous Version	Comments
VU23585 Use building information modelling (BIM) technology for a project	VU22678 Use building information modelling (BIM) technology for a project	Equivalent unit. Updated to meet revised Standards for Accredited Courses unit template.

Assessment Requirements Template

<p>Title</p> <p>Performance Evidence</p>	<p>Assessment Requirements for VU23585 Use building information modelling (BIM) technology for a project</p> <p>The learner must demonstrate the ability to complete tasks outlined in the elements, performance criteria and foundation skills of this unit including evidence of the ability to:</p> <ul style="list-style-type: none"> • apply a range of BIM technology for the lifecycle of a building project <p>In completing the above, there must also be evidence that the learner has:</p> <ul style="list-style-type: none"> • explored suitable BIM applications for the project • developed and applied appropriate collaborative models for project context • communicated project processes effectively to stakeholders for project duration.
<p>Knowledge Evidence</p>	<p>The learner must be able to apply essential knowledge required to effectively do the task outlined in elements and performance criteria of this unit, manage the task and manage contingencies in the context of the work role. This includes knowledge of:</p> <ul style="list-style-type: none"> • benefits and key features of BIM applications • strengths and limitations of using BIM building design software. • software developer specifications for BIM-capable building design software • capacity requirements of project team to apply BIM including issues arising from delivering BIM at an organisational level. i.e. organisational level workflows vs desired BIM deliverables and conflicts that may occur • BIM project management and contingencies strategies • data sharing and communication protocols and procedures • organisational procedures related to applying BIM applications to building projects.
<p>Assessment Conditions</p>	<p>Skills in this unit must be demonstrated in a workplace or an environment where building information modelling (BIM) is applied.</p> <p>This includes access to:</p> <ul style="list-style-type: none"> • internet, information technology and BIM compatible software, • related technologies, including mixed or blended technologies • relevant specifications and documentation • a construction project. <p>Assessor requirements</p> <p>No specialist vocational competency requirements for assessors apply to this unit.</p>

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VU23585 Use building information modelling (BIM)
technology for a project

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