

## Modification history

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 6.0.

<b>FWPTMM4XXX</b>	<b>Interpret details of timber wall frames to inform design of plans and production documents</b>
<b>Application</b>	<p>This unit of competency describes the skills and knowledge required to interpret and apply a broad range of information into the design of timber wall frames.</p> <p>The unit applies to individuals who apply detailed information in the preparation of timber wall frame drawings, production documents and installation instructions using custom software for residential or commercial construction.</p> <p>This unit of competency is suitable for individuals using their own judgment to deal with predictable and unpredictable problems and decide on solutions to a range of complex problems during the documentation preparation process.</p> <p>Work is completed in a timber production or design setting.</p> <p>No licensing, legislative or certification requirements apply to this unit at the time of publication.</p>
<b>Prerequisite Unit</b>	Nil
<b>Unit Sector</b>	Timber Manufacturing Products

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Prepare for design of layout plans	1.1 Read and interpret building plans and specifications to determine and verify applied loads and other design factors 1.2 Interpret relevant building codes, regulations and standards 1.3 Apply and follow organisational quality requirements for the design of timber wall frames 1.4 Consult with stakeholders/clients to clarification design requirements 1.5 Identify and resolve design, production and installation issues outside software limitations and seek appropriate advice 1.6 Design and draft a timber wall layout plan
2. Review and test design options	2.1 Review design meets client requirements and complies with appropriate building regulations, codes and standards 2.2 Test the quality, performance and reliability of production materials 2.3 Review layout produces optimal efficiency of materials
3. Design production and installation documentation	3.1 Check computer software for currency 3.2 Confirm dimensions, opening measurements and timber wall frames heights from building plans and specification 3.3 Input applied spans, loads and data into software and create a wall frame layout 3.4 Prepare production and client installation documentation following organisational quality requirements 3.5 Certify wall frame design complies with relevant building regulation, codes and practices 3.6 Store drawings and documentation following organisational procedures

<b>Foundation Skills</b>	
<i>This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.</i>	
<b>Skill</b>	<b>Description</b>
Reading	<ul style="list-style-type: none"> <li>Select and extract information from a range of documents and diagrammatic texts</li> </ul>
Writing	<ul style="list-style-type: none"> <li>Apply interrelationships between written and diagrammatic forms to produce installation documentation</li> </ul>

<b>Unit Mapping Information</b>			
<b>Code and title current version</b>	<b>Code and title previous version</b>	<b>Comments</b>	<b>Equivalence status</b>
FWPTMM4XXX Interpret details of timber wall frames to inform design of plans and production documents	FWPTMM4207 Prepare and advise on a broad range of timber wall frame details using computers	Redesigned unit using content from FWPTMM4207 Prepare and advise on a broad range of timber wall frame details using computers and FWPTMM3206 Interpret designs to prepare timber wall frame drawings and documents using computers Re-titled	No equivalent unit

<b>Links</b>	Companion Volumes, including Implementation Guides, are available at VETNet: <a href="https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47">https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47</a>
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<b>TITLE</b>	<b>Assessment requirements for FWPTMM4XXX Interpret details of timber wall frames to inform design of plans and production documents</b>
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<p><b>Performance Evidence</b></p> <p>An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.</p> <p>There must be evidence that the individual has designed layout plans and developed production and installation documentation for one standard height timber wall project, one raking timber frame project (with a pitch of greater than 5 degrees) and one fire rated project, each:</p> <ul style="list-style-type: none"> <li>• comprising of a minimum of ten walls</li> <li>• including internal, external and butting intersections</li> <li>• incorporating a minimum of four standard openings and two, minimum size, openings of 2.4 m wide.</li> </ul>
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<p><b>Knowledge Evidence</b></p> <p>An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:</p> <ul style="list-style-type: none"> <li>• relevant building industry regulations codes and standards             <ul style="list-style-type: none"> <li>• National Construction Code (NCC)</li> </ul> </li> <li>• organisational policies, procedures and processes:             <ul style="list-style-type: none"> <li>• outcomes and consequences of non-conforming design</li> </ul> </li> <li>• construction terminology</li> <li>• factors effecting timber frame design:             <ul style="list-style-type: none"> <li>• climate zones</li> <li>• wind forces</li> <li>• timber grading</li> <li>• tie down requirements</li> </ul> </li> <li>• key features of plans, drawings and specifications             <ul style="list-style-type: none"> <li>• types and applications of plans and drawings</li> <li>• relating specified information to plans and drawing details</li> </ul> </li> <li>• using computers and appropriate software to:             <ul style="list-style-type: none"> <li>• research information</li> <li>• communicate with internal and external stakeholders</li> <li>• input and amend design factors and other data</li> <li>• produce drawings, plans and documents</li> <li>• store and retrieve documents</li> </ul> </li> <li>• types, functions, capabilities and limitations of drawing software</li> <li>• application, characteristics and limitations of materials and components used for:             <ul style="list-style-type: none"> <li>• wall frames</li> <li>• flooring systems</li> <li>• roofing systems</li> </ul> </li> <li>• certifying timber wall frame design layouts</li> <li>• relevant work health and safety and environmental requirements.</li> </ul>
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<p><b>Assessment Conditions</b></p> <p>Assessment of skills must take place under the following conditions:</p> <ul style="list-style-type: none"> <li>• physical conditions:             <ul style="list-style-type: none"> <li>• skills must be demonstrated in design or manufacturing workplace or an environment that accurately represents workplace conditions</li> </ul> </li> <li>• resources, equipment and materials:             <ul style="list-style-type: none"> <li>• computers and software programs</li> <li>• printer/s and stationary</li> </ul> </li> <li>• specifications:             <ul style="list-style-type: none"> <li>• specific organisational policies, procedures and processes</li> <li>• relevant building regulations, codes and standards</li> <li>• work health and safety and environmental documentations</li> </ul> </li> </ul>
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<b>Assessment Conditions</b>	
<ul style="list-style-type: none"><li>• relationships:<ul style="list-style-type: none"><li>• clients/stakeholders to discuss timber frame design</li></ul></li></ul> <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>	
<b>Links</b>	Companion Volumes, including Implementation Guides, are available at VETNet: <a href="https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47">https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47</a>