



Australian Government

FWPTMM3215 Work effectively in the timber systems design industry

Release: 1

FWPTMM3215 Work effectively in the timber systems design industry

Modification History

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

Application

This unit of competency describes the skills and knowledge required to work effectively with a broad range of individuals and teams within the timber manufacturing products sector. It includes a sound understanding of the organisations' operations work practices and processes of timber systems design.

The unit applies to individuals who contribute to and provide quality product service to clients in a timber production or design setting. They use their own judgment to deal with predictable and unpredictable problems and decide on solutions to a range of problems during the timber design process.

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

Pre-requisite Unit

Nil

Unit Sector

Timber Manufactured Products (TMM)

Elements and Performance Criteria

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. Research the timber systems design industry	1.1 Identify, read and interpret relevant timber system design regulations, codes and standards 1.2 Identify relevant workplace safety and environmental requirements for timber systems design work

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.3 Identify roles, responsibilities and scope of work of a timber systems designer 1.4 Identify key industry stakeholders in the timber systems design industry
2. Develop and apply product and process knowledge	2.1 Identify efficient designer practices in timber system design 2.2 Source and share information on new and emerging timber products and construction techniques that impact timber systems design 2.3 Propose and promote the benefits of timber products to stakeholders 2.4 Recognise factors that impact on design and manufacture of timber systems 2.5 Identify methods of design and manufacture that optimise effective production 2.6 Assess own timber system design industry product and process knowledge, and undertake professional development related to job role
3. Work as a timber systems designer	3.1 Identify, read and apply workplace policies and procedures relevant to own work role as timber systems designer 3.2 Develop and maintain effective communications and relationships with stakeholders and workplace team members 3.3 Identify and access materials, design documentation, specifications and equipment to complete the design task 3.4 Sequence design tasks throughout the design project life cycle according to industry practices and workplace procedures 3.5 Utilise technology to design, cost, produce, retain and communicate design information, plans and documentation according to industry and workplace procedures 3.6 Clarify project and design information with manufacturer and client stakeholder 3.7 Identify and resolve problems that impact the design, manufacture and construction of timber systems

Foundation Skills

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.

Skill	Description
Reading	Identify and integrate information from various documentation to understand industry and organisational requirements
Oral communication	- Select and use vocabulary appropriate to the audience - Use terminology specific to role
Numeracy	Use measurement and formulas to calculate material quantities and costing

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPTMM3215 Work effectively in the timber systems design industry	Not applicable	This unit has been created to address an emerging skill or task required by industry	Newly created

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>

Assessment Requirements for FWPTMM3215 Work effectively in the timber systems design industry

Modification History

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

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has completed a minimum of five different timber systems design specific job tasks and has:

- followed relevant workplace policies and procedures relating to the job role as a timber systems designer
- sourced and shared timber system design information with stakeholders or work team
- used timber system design technology.

Knowledge Evidence

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:

- building industry regulations, codes and standards relevant to timber systems design:
 - National Construction Code (NCC)
 - Timber Framing Code
- organisational risks of non-conforming design
- construction terminology relevant to timber systems design
- key features of plans, drawings and specifications used in timber systems design:
 - types and applications of plans and drawings
 - drawing conventions
- computers and appropriate software and processes to:
 - research information
 - communicate with internal and external stakeholders
 - input and amend design factors and other data
 - produce drawings, plans and documents
 - save and retrieve documents
- types, functions, capabilities and limitations of drawing software

- application, characteristics and limitations of materials and components used for:
 - wall frames
 - flooring systems
 - roofing systems
- communication techniques and methods to maintain stakeholder and workplace relationships
- key stakeholders in timber systems design industry:
 - architects
 - engineers
 - suppliers
 - builders
 - building regulators
 - industry associations
 - government bodies
- project life cycle:
 - initial planning
 - contract endorsement
 - project planning
 - timber systems design and manufacture
 - construction progress from commencement to completion
- factors that impact timber design:
 - location and type of building
 - material availability
 - cost and quality of materials and components
 - effect of floor members position on overlaying frame and roof truss member position
- certifying timber systems design layouts
- relevant work health and safety and environmental requirements.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a timber systems design workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - computers, internet access and software programs
 - access to timber systems design software
- specifications:
 - access to workplace policies, procedures and documentation applicable to timber systems design work

- access to workplace safety and environmental policies and procedures applicable to timber systems design
- access to design specifications and building plans
- relationships:
 - stakeholders and/or workplace personnel to discuss timber system designs with.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>