



Australian Government

FWPCOT6210 Develop engineered wood products to meet energy efficient building design needs

Release: 1

FWPCOT6210 Develop engineered wood products to meet energy efficient building design needs

Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 4.0.

Application

This unit of competency describes the skills and knowledge required to research and develop engineered wood products to meet the requirements of energy efficient design for residential buildings. It requires high-level understanding of residential building design, building codes and engineered timber design and practice.

The unit applies to individuals who work as designers (manufacturing and engineered wood products) and senior managers in a timber and wood products production environment. They generally demonstrate autonomy, judgement and defined responsibility in known or changing contexts and within broad but established parameters.

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

Pre-requisite Unit

Nil

Unit Sector

Common Technical

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>

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. Explore commercial opportunities for engineered wood products	1.1 Review National Construction Code guidelines and standards relating to climate zones and energy efficiency measures 1.2 Research and evaluate existing information to inform new product development 1.3 Identify gaps in the current range of engineered wood products for new products or concepts 1.4 Complete a market analysis using appropriate information sources to determine design and production requirements 1.5 Develop preliminary product concept according to research findings 1.6 Consult relevant stakeholders on broad parameters for developing a product that meets the market need
2. Formulate design concept for products	2.1 Generate ideas for product style to complement design concepts and production requirements 2.2 Use appropriate documentation methods to produce preliminary representation or prototyping of product 2.3 Consult with stakeholders to review and critique design concepts according to production requirements 2.4 Review design concepts to ensure energy efficiency is proven to allow project progression 2.5 Develop a business case for realising design including a full cost-benefit analysis 2.6 Obtain required approvals to progress product development according to production requirements
3. Develop the product to an operational level	3.1 Develop and test product according to design concepts 3.2 Align product energy efficiency requirements to market analysis 3.3 Implement certification and compliance processes for engineered product and production system 3.4 Develop detailed implementation specifications and present to relevant stakeholders for approval and funding 3.5 Select and organise production resources according to design specifications 3.6 Design quality assurance system according to workplace procedures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	3.7 Develop and document safe operating procedures for production processes

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	<ul style="list-style-type: none"> Interpret complex and sometimes unfamiliar information in building codes, guidelines and standards
Oral communication	<ul style="list-style-type: none"> Hold high-level consultative discussions to present abstract ideas and generate feedback and ideas on design concepts Influence and negotiate desired outcomes with stakeholders
Numeracy	<ul style="list-style-type: none"> Interpret complex energy efficiency ratings in codes, and complete complex calculations for designs Complete complex calculations for cost-benefit analysis
Navigate the world of work	<ul style="list-style-type: none"> Work independently and collectively within broad parameters, with a strong sense of responsibility and ownership of goals, plans, decisions and outcomes
Interact with others	<ul style="list-style-type: none"> Identify the perspectives of others as part of work role
Get the work done	<ul style="list-style-type: none"> Use analytical processes, establishing criteria for deciding between options and seeking input and advice from others before taking action when necessary

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT6210 Develop engineered wood products to meet energy efficient building design needs	FWPCOT6203 Develop engineered timber products to meet energy efficient building design needs	Updated industry terminology, the range of products in performance evidence and foundation skills; clarified intent of the unit and assessment requirements; changed unit title and code for compliance and consistency with the updates.	Equivalent unit

Links

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