



Australian Government

Assessment Requirements for FWPCOT6203 Develop engineered timber products to meet energy efficient building design needs

Assessment Requirements for FWPCOT6203 Develop engineered timber products to meet energy efficient building design needs

Modification History

Release	Comment
1	Replaces equivalent unit FPICOT6203A Develop engineered timber products to meet energy efficient building design needs, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. Assessment requirements now specify the performance and knowledge evidence, as well as assessment conditions for this unit of competency. These sections simplify and replace components used in the previous unit format, including 'Required Skills and Knowledge, Evidence Guide and Range Statement'.

Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit, and must be able to provide evidence that they can:

- Develop two designs for engineered timber products from initial concepts through to operational level; products are to be chosen from the following list:
 - laminated beams
 - laminated veneer lumber (LVL)
 - plywood
 - chipboard
 - hardboard
 - medium density fibre board (MDF)
 - oriented strand board (OSB)
 - laminated or engineered flooring.

Knowledge Evidence

A person competent in this unit must be able to demonstrate knowledge of:

- Purpose and key content of the following codes and standards :
 - Building Codes of Australia (BCA) guidelines and standards for climate zones and energy efficiency measures
 - AS/NZ Standards associated with engineered wood products and associated design and construction
 - Forest Certification and Chain of Custody Standards.
- Key components of market analysis, including:

- need
- placement
- financial certainty
- volume.
- Market issues relevant to engineered wood products engineered wood products and climate zones and applications.
- Theory underpinning development of R-values.
- Timber engineering design principles for energy efficient residential constructions.
- Characteristics of a range of timber species and associated wood based products, their durability and serviceability.
- Key features of product development stages relevant to engineered timber products, including:
 - prototyping
 - testing
 - acquiring and commencing certification
 - gaining approval for infrastructure development
 - establishing production methods and procedures
- Project management processes and tools for developing engineered timber products, including:
 - quality management systems
 - risk assessment systems
 - cost benefit analysis tools
- Purpose, format and common contents of business cases for realising designs, including:
 - capital cost
 - material
 - labour
 - design expenses
 - overheads
 - margin
 - running cost
 - lifecycle analysis
 - market uptake
 - discount and internal rate of return on investment
 - other opportunity cost analysis
- System functions and capabilities of house energy rating software and associated protocols for use.

Assessment Conditions

The following resources must be made available:

- Computers, keyboards, printers and software used to document business case, design specifications and safe operating procedures.
- Documents and proformas commonly used for:
- business cases
- safe operating procedures for production processes.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessor requirements

Assessors must:

- Hold the appropriate assessor competency standards as outlined in regulations; and
- be able to demonstrate vocational competencies at least to the level being assessed; and
- be able to demonstrate how they are continuing to develop their VET knowledge and skills as well as maintaining their industry currency and assessor competence.
-

Links

Companion Volume implementation guides are found in VETNet -
<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>