



Australian Government

FWPCOT3226 Assess timber for manufacturing potential

Release: 1

FWPCOT3226 Assess timber for manufacturing potential

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 assess timber for its manufacturing potential for frame or truss construction. It includes assessing timber for the ability to hold nail plates and retain engineered strength ratings.

The unit applies to timber fabricators or manufacturing assistants who take responsibility for organising and completing tasks with a high degree of self-direction.

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

Pre-requisite Unit

Nil

Unit Sector

Common Technical (COT)

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. Prepare for assessing	1.1 Determine job requirements from work orders and identify type and quantity of material for processing, seeking clarification from appropriate person where required 1.2 Confirm safety and environmental requirements for the task according to workplace and environmental and safety procedures 1.3 Sequence stages for timber assessment and movement of materials to maximise production outputs 1.4 Access storage area and select materials according to work order

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	requirements
2. Assess timber	2.1 Assess timber visually and evaluate characteristics and defects against industry and Australian Standards to determine manufacturing potential 2.2 Measure sectional sizes and lengths of materials according to job specifications 2.3 Separate materials unsuitable for plating or sawing according to assessment 2.4 Orientate timber components to optimise use of characteristics
3. Distribute material	3.1 Organise movement of material for processing operations according to workplace procedures 3.2 Label material using numerical grades according to workplace procedures 3.3 Monitor on-site movement of material to ensure intended work flow is achieved 3.4 Recycle unsuitable timber for plating to minimise wastage, and relocate to storage area 3.5 Dispose of defective material according to workplace environmental policies and procedures 3.6 Record assessment outcomes and distribution problems, and report to appropriate person

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	Interpret information from industry standards to determine manufacturing potential of various timber characteristics
Writing	Structure simple assessment reports using appropriate concise vocabulary
Oral communication	Ask questions and actively listen to confirm work orders or

Skill	Description
	instructions

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3226 Assess timber for manufacturing potential	FWPCOT2235 Assess timber for manufacturing potential	Level of skill complexity revised Application clarified Performance Criteria re-sequenced Foundation Skills and Assessment Requirements updated	Equivalent

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 FWPCOT3226 Assess timber for manufacturing potential

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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 visually assessed at least three different types of timber for manufacturing potential for one timber wall frame and one timber roof or floor truss project, and has:

- used at least two of the following tools in assessments:
 - charts
 - gauges
 - picture cards
 - measuring equipment
- completed an assessment report for each project, identifying timber characteristics, defects and impacts on nail plate holding ability.

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:

- guidelines, codes and standards for provisions of relevant engineered strength ratings and timber ability to hold nail plates
- workplace policies and procedures relating to timber assessment:
 - labelling of assessed timber products
 - lines of communicating and reporting
 - reporting and recording outcomes
 - orientating components to make best use of timber characteristics
- workplace safety and environmental procedures for undertaking timber assessment and disposal of defective timber products
- characteristics, properties and limitations of potential timber products for manufacturing

- defects of hardwoods and softwoods timber products and impacts on nail plate holding ability:
 - wane/want and collapse
 - bow, spring and twist
 - cupping and other distortion
 - knots and knot holes
 - borer damage
 - gum/resin veins and pockets
 - decay
 - end splits, internal checks and surface checks
 - low density material
 - compression failures and fractures
 - durability
 - heart in material
 - joint strength
- industry standard timber species and materials and nail plate holding ability:
 - native timber species
 - imported timber species
 - dressed timber
 - in-the-rough timber
 - stress and non-stress graded timber
 - preservative treated timber
 - laminated veneer coated and treated timber products
- beams or laminated beams
- industry standard lengths, cross sections and grades, and impact on nail plate holding ability
- timber visual assessment techniques
- tools used to assess timber products:
 - charts
 - gauges
 - picture cards
 - measuring equipment
- industry terminology relating to assessing timber for manufacturing potential.

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 fabrication workplace or an environment that accurately represents workplace conditions

- resources, equipment and materials:
 - tools to assess timber for manufacturing potential
 - at least three different types of timber to be assessed
- specifications:
 - access to work orders and standards and codes of practice related to assessing timber for manufacturing potential
 - access to workplace safety and environmental policies and procedures applicable to assessing timber in a fabrication workplace

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

Links

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