



Australian Government

**Assessment Requirements for
FWPCOT3290 Apply knowledge of timber
properties, sawmill operations and
sawmilling equipment**

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Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 5.0.

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, on at least one occasion, identified the types and properties of timber, sawmilling products and processes and sawmilling equipment used in a sawmill and has:

- identified types, defects and properties of timber and their impact on sawing, timber volume and value recovery
- identified sawmill products and processes
- described types, functions and capabilities of sawing machines
- described key features of quality requirements
- identified the regulatory framework impacting on sawmilling operations.

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:

- processes involved in conversion:
 - debarking
 - primary breakdown
 - secondary sawing
 - crosscutting
 - stacking
 - seasoning
 - residue removal
 - storage
- timber value and volume recovery:
 - definition

- ways of measuring
- species, grades and relative value of logs
- methods used for measurement of logs
- timber features and properties and potential impact on sawing, timber volume and value recovery
- timber defects and potential impact on sawing, timber volume and value recovery
- processes involved in converting sawlogs to timber
- process flow through sawmill
- location of main processes in sawmill
- type, grade, finish and value of sawn products and by-products
- type, function and capability of sawing machines
- production (volume) sawing
- grade (value) sawing
- types and functions of saw blades
- designed capability of sawing machines
- defects in timber due to conversion processes in sawmill
- types, purpose and process for recording quality data
- quality control processes
- workplace health and safety legislation relating to sawmill operations, including the use of personal protective equipment
- environmental protection legislation relating to sawmill operations
- industry codes of practice relating to sawmill operations.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a forest product factory setting or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - workplace documents that provide basic information on work practices, procedures, processes or equipment
 - workplace documents that provide basic information on quality control processes, workplace health and safety and environment protection procedures
 - reference materials on timber properties and defects and regulatory framework impacting on sawmilling operations.

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>

