



Australian Government

FWPCOT3290 Apply knowledge of timber properties, sawmill operations and sawmilling equipment

Release: 1

FWPCOT3290 Apply knowledge of timber properties, sawmill operations and sawmilling equipment

Modification History

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

Application

This unit of competency describes the skills and knowledge required to apply knowledge to identify the products, work processes and equipment in an operational sawmill. This includes identifying timber properties and defects and how these impact on sawing operations, timber volume and value recovery, process flow through a sawmill, quality requirements, the types, functions and capabilities of sawing machines and the regulatory arrangements that apply to sawmill operations.

The unit applies to individuals who work in various areas of sawmilling operations.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace.

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. Identify timber properties and impact on	1.1 Identify species, grades and relative value of logs according to rules established by state forestry organisation, local forest owners or

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
sawmilling operations	purchasing sawmill for a specific or intended end use 1.2 Outline methods used for measurement of logs 1.3 Identify timber properties and potential impact on sawing, timber volume and value recovery 1.4 Describe timber features, properties and defects and potential impact on sawing, timber volume and value recovery
2. Identify sawmill products and processes	2.1 Identify processes involved in converting sawlogs to timber 2.2 Describe process flow through sawmill 2.3 Establish location of main processes in sawmill 2.4 Identify type, grade, finish and value of sawn products and by-products
3. Identify types, functions and capabilities of sawing machines	3.1 Describe type, function and capability of sawing machines 3.2 Distinguish between production (volume) sawing, grade (value) sawing, and combinations of both 3.3 Distinguish between different types and functions of saw blades 3.4 Assess impact of designed capability of sawing machines on timber volume and value recovery
4. Identify quality requirements	4.1 Assess impact of poor-quality sawn products on customers, profitability and compliance with industry standards 4.2 Identify types, purpose and process for recording quality data 4.3 Identify quality control processes
5. Identify regulatory framework impacting on sawmilling operations	5.1 Identify workplace health and safety legislation relating to sawmill operations and how this is reflected in workplace procedures 5.2 Describe key features of environment protection legislation relating to sawmill operations and how this is reflected in workplace procedures 5.3 Identify key features of industry codes of practice and how these are reflected in workplace procedures

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	Extracts key information from workplace documents on timber properties
Writing	Prepares sample quality reports using required format, language and structure
Numeracy	Reads graphical and statistical data used to monitor quality
Navigate the world of work	Understands main tasks, responsibilities and boundaries of own role
Get the work done	Recognises and responds to routine problems

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3290 Apply knowledge of timber properties, sawmill operations and sawmilling equipment	Not applicable	New unit	No 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>