



**Australian Government**

# **FWPCOT3291 Apply principles of timber and process optimisation in sawmill operations**

**Release: 1**

# FWPCOT3291 Apply principles of timber and process optimisation in sawmill operations

## 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 optimisation principles in sawmilling operations to increase timber value and volume recovery. It includes identifying the drivers for optimisation, assessing opportunities for timber and workflow optimisation, identifying optimisation opportunities in own work area and participating in and evaluating optimisation initiatives.

The unit applies to individuals who are involved in timber and process optimisation in 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 opportunities for optimisation in	1.1 Identify drivers for optimisation in sawmilling operations 1.2 Identify potential impact of timber and material flow optimisation

<b>Elements</b>	<b>Performance Criteria</b>
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
sawmilling operations	<p>on timber value and volume recovery in sawmill operations</p> <p>1.3 Assess opportunities for timber optimisation in sawmilling operations</p> <p>1.4 Assess opportunities for material flow optimisation in sawmilling operations</p> <p>1.5 Identify the technologies and work practices that are applied to enhance timber and workflow optimisation in sawmill operations</p>
2. Identify optimisation opportunities in own work area	<p>2.1 Compare current work practices, procedures, processes or equipment performance in own work area with requirements or performance indicators in relation to timber value and volume recovery</p> <p>2.2 Recognise variances that indicate sub-optimal performance</p> <p>2.3 Identify causes of sub-optimal performance and recommend corrective actions to relevant personnel</p>
3. Participate in optimisation initiative	<p>3.1 Participate in an approved optimisation initiative and monitor performance</p> <p>3.2 Assess results of optimisation initiative</p> <p>3.3 Record outcomes of actions and communicate to relevant personnel</p>

## 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.*

<b>Skill</b>	<b>Description</b>
Reading	<ul style="list-style-type: none"> <li>Extracts key information from workplace documents on optimisation initiatives</li> </ul>
Writing	<ul style="list-style-type: none"> <li>Prepares routine written reports using required format, language and structure</li> </ul>
Oral communication	<ul style="list-style-type: none"> <li>Employs active listening and questioning to clarify content of work orders</li> </ul>
Numeracy	<ul style="list-style-type: none"> <li>Interprets graphical and statistical data used to describe and show</li> </ul>

Skill	Description
	timber production, equipment performance and value recovery
Navigate the world of work	<ul style="list-style-type: none"> <li>Understands main tasks, responsibilities and boundaries of own role</li> </ul>
Interact with others	<ul style="list-style-type: none"> <li>Uses modes of communication suitable to purpose to confirm and clarify understanding</li> </ul>
Get the work done	<ul style="list-style-type: none"> <li>Recognises and responds to routine problems</li> </ul>

## Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPCOT3291 Apply principles of timber and process optimisation in sawmill operations	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>