



**Australian Government**

# **FWPSAW4207 Optimise timber production for volume and value recovery**

**Release: 1**

# FWPSAW4207 Optimise timber production for volume and value recovery

## 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 optimise the volume and value of sawn timber based on analysis of timber characteristics, machine capability and product demand.

The unit applies to individuals who optimise timber production for volume and value recovery in a timber sawmill.

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

Sawmilling and Processing (SAW)

## 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 to optimise timber production         | 1.1 Review work order to determine job requirements and, where required, seek clarification from appropriate personnel<br>1.2 Review workplace health and safety procedures, including the use of personal protective equipment, equipment lock-out and safe manual |

| Elements                                                      | Performance Criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i>              | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                                                               | <p>handling techniques</p> <p>1.3 Identify, assess and take actions to mitigate risks and hazards associated with optimising timber production</p> <p>1.4 Identify workplace environmental protection procedures for minimising and disposing of waste material, cleaning tools and equipment, and maximising energy efficiency</p> <p>1.5 Consult with appropriate personnel to ensure that work is coordinated effectively with others in the workplace</p> <p>1.6 Obtain tools, equipment and timber needed for the work</p>                                                                                                                                                                                                                                                                                                                                                                                            |
| 2. Plan to optimise the volume and value of timber production | <p>2.1 Identify cutting plan and output mix based on analysis of timber characteristics, machine capability and product demand</p> <p>2.2 Identify processing constraints and potential solutions to ensure that production and quality requirements are met</p> <p>2.3 Check input material against specification and production run requirements</p> <p>2.4 Inspect timber for defects and identify potential impact on the cutting plan, production run and product quality</p> <p>2.5 Finalise cutting plan based on inspection outcomes</p> <p>2.6 Identify implications of unsuitable planning on volume and value of timber production and associated impacts on customers and saw centre efficiency</p> <p>2.7 Check trial pieces to ensure compliance with production and product quality requirements</p> <p>2.8 Communicate cutting plan, production rate and quality requirements to appropriate personnel</p> |
| 3. Implement and report on the optimisation plan              | <p>3.1 Implement cutting plan to optimise volume and value of timber production</p> <p>3.2 Manage production rate to ensure compliance with optimisation objectives</p> <p>3.3 Monitor quality of cut timber to ensure compliance with optimisation objectives</p> <p>3.4 Manage reuse, recycling or disposal of items that do not meet quality requirements</p> <p>3.5 Monitor product flow to optimise downstream processes according to workplace procedures</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

| Elements                                         | Performance Criteria                                                                                                                                                                                                                                                                                                           |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Elements describe the essential outcomes.</i> | <i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>                                                                                                                                                                                                                         |
| 4. Report on optimisation                        | 4.1 Review optimisation objectives in relation to timber volume and value recovery<br>4.2 Record production outcomes according to workplace procedures<br>4.3 Compare production outcomes with optimisation objectives<br>4.4 Report production outcomes and compliance with optimisation objectives to the 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                    | <ul style="list-style-type: none"> <li>Extracts essential information from operational manuals regarding the capability of sawing machines</li> </ul>    |
| Writing                    | <ul style="list-style-type: none"> <li>Prepares routine written reports using the 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 to compare production output against optimisation objectives</li> </ul> |
| 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 |
|--------------------------------|---------------------------------|----------|--------------------|
|                                |                                 |          |                    |

|                                                                                 |                |          |                    |
|---------------------------------------------------------------------------------|----------------|----------|--------------------|
| FWPSAW4207<br>Optimise timber<br>production for<br>volume and<br>value recovery | 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>