



**Australian Government**

# **FWPSAW2211 Round softwood logs**

**Release: 1**

## FWPSAW2211 Round softwood logs

### 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 shape debarked logs into round poles to a set diameter for further downstream processing using a machine that shapes the debarked log into a round pole.

The unit applies to individuals who round softwood logs in a timber processing plant.

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 for rounding logs                     | 1.1 Review work order to determine job requirements and, where required, seek clarification from appropriate personnel<br>1.2 Review environmental protection procedures and workplace health and safety requirements, including use of personal protective equipment, equipment lock-out and safe manual handling techniques<br>1.3 Identify, assess and take actions to mitigate risks and hazards |

| 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>associated with rounding operations</p> <p>1.4 Identify and implement workplace procedures for minimising waste material and maximising energy efficiency</p> <p>1.5 Assess logs to be rounded for diameter, species, faults and moisture content</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2. Round logs                                    | <p>2.1 Use equipment according to workplace safety procedures, manufacturer instructions and environmental protection practices</p> <p>2.2 Complete pre-start-up checks to ensure operational effectiveness</p> <p>2.3 Feed material into the machine at feed rate according to workplace procedures</p> <p>2.4 Maintain rounding process and adjust to maximise feed rate</p> <p>2.5 Check rounding process and conveyors regularly, adjusting to maintain desired quality and output</p> <p>2.6 Reject and dispose of sub-standard logs according to environmental protection practices</p> <p>2.7 Direct rounded logs to the designated area according to work order</p> <p>2.8 Identify routine processing faults, and resolve or report to appropriate personnel</p> |
| 3. Complete operator maintenance                 | <p>3.1 Lock out equipment according to workplace safety procedures</p> <p>3.2 Check cutters for bluntness or damage</p> <p>3.3 Remove and replace cutters according to manufacturer recommendations</p> <p>3.4 Dispose of used cutters according to environmental protection practices</p> <p>3.5 Complete basic non-specialist equipment maintenance, including greasing and lubricating moving parts and inspecting for wear or damage</p> <p>3.6 Keep machine clear of dust and debris according to workplace safety procedures</p> <p>3.7 Record and report equipment faults and maintenance requirements to appropriate personnel</p>                                                                                                                                |
| 4. Complete handover                             | <p>4.1 Complete production and quality records</p> <p>4.2 Brief and hand over documentation to changeover operator</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.*

| Skill                      | Description                                                                                                                                                                                                                                                                                                    |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reading                    | <ul style="list-style-type: none"><li>Extracts key information from operational manuals to determine safe operating procedures for equipment</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>Identifies quantities of required material within work orders, and counts number of logs to be rounded</li><li>Performs routine calculations to determine log diameters</li><li>Calculates the feed rate to optimise quality and quantity of production output</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 |
|-----------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| FWPSAW2211<br>Round softwood logs | FWPSAW2207<br>Round softwood logs | Updated workplace health and safety requirements in performance criteria and performance evidence; removed reference to scanners; updated foundation skills | 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>

# Assessment Requirements for FWPSAW2211 Round softwood logs

## 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 on one occasion, rounded softwood logs using a machine that shapes the debarked log into a round pole, and has:

- followed work order and relevant workplace health and safety and environmental protection procedures
- identified, assessed and taken actions to mitigate risks and hazards associated with rounding activities
- rounded softwood logs following workplace policies and procedures
- stored poles according to workplace requirements
- completed each of the following basic non-specialist maintenance activities on at least one occasion:
  - checked the operation of emergency stop buttons and lock-out systems
  - cleaned the machine of wood chips and sawdust
  - replaced blunt cutters
  - inspected machine parts for wear or damage, including guards
  - greased and lubricated moving parts
- completed handover functions.

## 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:

- purpose, features and operation of equipment used to round softwood logs:
  - measuring equipment
  - rounding plant
  - scanners that calibrate dimension sizes
  - back-up computer device

- automated conveyor system to transport logs to and from the rounding plant
- maintenance tools and equipment for cutters
- methods used to assess logs for:
  - diameter
  - curvature
  - faults
  - species
  - moisture content
- typical work flow processes for rounding logs
- typical flow of log supply in and out of the production area
- range of feed rates and how they affect production output and finished quality of rounded logs
- methods for assessing and rectifying typical scanner problems:
  - tangles
  - sorting pockets
  - monitor failure
- methods for assessing cutter condition
- log rounding systems, processes, feed rates and finish
- characteristics of timber
- storage systems and labelling
- environmental protection practices for forest products factory settings:
  - reducing water and energy use
  - cleaning plant, tools and equipment
  - disposing of, recycling and reusing timber
- typical log defects and how they affect ability to produce quality rounded softwood logs:
  - warp
  - wane
  - curvature
  - cupping
  - shakes
  - insect defects
  - knots
  - resin pockets
- workplace procedures specific to rounding logs:
  - workplace health and safety, with particular emphasis on equipment lock-out and use of personal protective equipment (PPE)
  - communication reporting lines
  - recording and reporting processing problems and equipment faults.

## Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
  - skills must be demonstrated in a timber processing plant or an environment that accurately represents workplace conditions
- resources, equipment and materials:
  - measuring equipment
  - moisture probes
  - rounding plant
  - automated conveyor system to transport logs to and from the rounding plant
  - maintenance tools and equipment for cutters
  - consumable cutters
  - PPE suitable for producing sawing and moving flitches and cants
  - a selection of logs
- specifications:
  - manufacturer instructions for use, repair and maintenance of equipment
  - work order with specific instructions for rounding logs and despatch to downstream processing
  - template documents for recording equipment faults and maintenance requirements
  - workplace procedures for rounding logs.

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>