

Modification history

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 8.0.

FWPSAW3XXX	Assemble, operate and dismantle a portable sawmill
Application	<p>This unit of competency describes the skills and knowledge required to assemble, operate and dismantle a portable sawmill.</p> <p>The unit applies to individuals who assemble, operate and dismantle portable sawmills.</p> <p>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.</p> <p>No licensing, legislative or certification requirements apply to this unit at the time of publication.</p>
Prerequisite Unit	Nil
Unit Sector	Sawmilling and Processing (SAW)

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. Assemble portable sawmill	<p>1.1 Determine job requirements from work order or instructions and, where required, confirm with appropriate personnel</p> <p>1.2 Confirm workplace safety and environment protection requirements for the task, including use of personal protective equipment, equipment lock-out and safe manual handling</p> <p>1.3 Identify, assess and take actions to mitigate hazards and associated risks for assembling operating and dismantling portable sawmills</p> <p>1.5 Inspect suitability of proposed work site and identify potential workflow interferences</p> <p>1.6 Identify safe location for equipment, logs, stacking of sawn timber and waste</p> <p>1.7 Assemble portable sawmill on site according to manufacturer instructions</p> <p>1.8 Complete pre-operational checks on portable sawmill</p> <p>1.9 Conduct test run of portable sawmill and resolve or report processing and equipment faults</p>
2. Saw logs using portable sawmill	<p>2.1 Use cant hooks, winches or log rollers to position logs to be sawn and stabilise with chock logs or pre-notched runners</p> <p>2.2 Determine sawn timber dimensions from customer order or work order</p> <p>2.3 Identify log characteristics and estimate number of timber boards and sequence of cuts from an individual log</p> <p>2.4 Adjust saw, carriage and mill to suit dimensions of boards to be cut</p> <p>2.5 Operate portable sawmill ensuring that sawn edges are controlled</p> <p>2.6 Remove logs with defects, reject boards and off-cuts to waste or sawn recovery</p> <p>2.7 Record and report process and equipment faults</p>
3. Conduct operator maintenance	<p>3.1 Lock-out and isolate portable sawmill according to workplace safety procedures</p> <p>3.2 Check saw and saw blades for bluntness or damage and repair or replace according to manufacturer instructions</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. Dismantle portable sawmill	4.1 Dismantle portable sawmill according to manufacturer instructions 4.2 Load and secure dismantled sawmill equipment for transportation 4.3 Restore work site according to workplace environment protection procedures

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Foundation Skills	
<i>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.</i>	
Skill	Description
Reading	<ul style="list-style-type: none"> Interpret routine workplace documents relevant to portable sawmilling operations
Writing	<ul style="list-style-type: none"> Complete routine workplace records used in sawmilling operations
Oral communication	<ul style="list-style-type: none"> Ask open and closed questions and actively listen to clarify contents of work orders
Numeracy	<ul style="list-style-type: none"> Interpret familiar numerical information in work orders Perform routine calculations or estimations of number and dimension relevant to sawmilling operations

Unit Mapping Information			
Code and title current version	Code and title previous version	Comments	Equivalence status
FWPSAW3XXX Assemble, operate and dismantle a portable sawmill	FWPSAW3229 Operate a portable sawmill	New unit title; Unit updated to broaden its application	Not equivalent

Links
Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47

TITLE	Assessment requirements for FWPSAW3XXX Assemble, operate and dismantle a portable sawmill
Performance Evidence	
<p>An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.</p> <p>There must be evidence that the individual has:</p> <ul style="list-style-type: none"> • selected an appropriate site and assembled one portable sawmill following workplace procedures • selected logs and operated one portable sawmill for one production period to produce green timber boards according to a work order • performed routine operator maintenance on one portable sawmill at the completion of a production period • disassembled and prepared one portable sawmill for transportation. <p>In performing each of these tasks, the individual has:</p> <ul style="list-style-type: none"> • followed workplace operating and safety procedures, including use of personal protective equipment (PPE), equipment lock-out and safe manual handling • identified and controlled hazards associated with the work task • followed workplace environment protection procedures. 	
Knowledge Evidence	
<p>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:</p> <ul style="list-style-type: none"> • features and safe use of portable sawmills and other equipment, including: <ul style="list-style-type: none"> • cant hooks • winches • log rollers • mechanical lifting equipment • appropriate locations for portable sawmills to optimise efficient and safe workflow • prestart up checks for portable sawmills including: • ensuring that the saw has been set-up correctly <ul style="list-style-type: none"> • ensuring that the blades are installed accurately • ensuring that the machinery is operating to optimum performance • optimisation of log sawing including: <ul style="list-style-type: none"> • planning the cutting of a log to achieve the most from it (the most and widest boards possible) • ensuring environmental requirements are central to this planning process • characteristics of logs for sawing, which must include: <ul style="list-style-type: none"> • diameter range • curvature • faults • species • moisture content • log sawing processes, feed rates and finish • blade condition assessment • log defects which include: <ul style="list-style-type: none"> • defects arising from a change in moisture content • warp • wane • curvature • shakes • insect defects • knots and resin pockets • sweep • taper • end splits • shape 	

Knowledge Evidence	
<ul style="list-style-type: none"> • non-specialist maintenance for portable sawmills: <ul style="list-style-type: none"> • cleaning the machine of wood chips and sawdust • replacing blunt and damaged saw blades • inspecting machine parts for wear or damage, including guards • greasing and lubricating moving parts • checking the operation of emergency stop buttons and lock out systems • workplace procedures for assembling, operating and disassembling a portable sawmill, including: <ul style="list-style-type: none"> • health and safety including use of PPE, equipment lock-out and safe manual handling • portable sawmill operation • communication reporting lines • recording and reporting processing and equipment faults • hazards and associated risks with assembling, operating and dismantling a portable sawmill • workplace environment protection procedures for safe disposal of waste material and cleaning of plant, tools and equipment. 	
Assessment Conditions	
<p>Assessment of the skills in this unit of competency must take place under the following conditions:</p> <ul style="list-style-type: none"> • physical conditions: <ul style="list-style-type: none"> • skills must be demonstrated in the workplace or an environment that accurately represents workplace conditions • resources, equipment and materials: <ul style="list-style-type: none"> • portable sawmill • tools and equipment required for assembling, operating and dismantling a portable sawmill • PPE suitable for assembling, operating and dismantling a portable sawmill • quantities of logs • specifications: <ul style="list-style-type: none"> • work order or instruction detailing activities to be carried out • workplace health and safety and environment protection procedures applicable to assembling, operating and dismantling a portable sawmill • workplace procedures for assembling, operating and dismantling a portable sawmill. <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>	
Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47