

**Modification history**

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

FWPSAW3XXX	Operate conventional log breakdown saw line
<b>Application</b>	<p>This unit of competency describes the skills and knowledge required to operate conventional breakdown saw line to saw logs as part of primary and secondary processing or green mill operations in a sawmill.</p> <p>The unit applies to individuals who saw logs using conventional log breakdown saw lines in a sawmill or timber processing work environment.</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>
<b>Prerequisite Unit</b>	Nil
<b>Unit Sector</b>	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. Prepare for primary or secondary log breakdown	1.1 Determine job requirements from work order or instructions and, where required, check with appropriate personnel 1.2 Review workplace health and safety and environment protection procedures for work activity, including emergency procedures to be followed in the event of an emergency situation 1.3 Identify, assess and take actions to mitigate risks and hazards associated with performing log breakdown 1.4 Check production input to ensure that it meets job specifications 1.5 Check that other upstream and downstream processing stages are ready for production 1.6 Select cutting schedule based on incoming production input and job requirements to optimise grade, size and recovery 1.7 Conduct trial runs to check for quality and compliance with cutting schedule requirements 1.8 Identify processing constraints and potential solutions according to workplace procedures
2. Operate primary or secondary log breakdown equipment	2.1 Complete pre-start-up checks according to manufacturer and workplace procedures 2.2 Operate breakdown equipment to comply with selected cutting schedule 2.3 Manage product flow to ensure efficient workflow in the sawmill and breakdown operations
3. Monitor performance of breakdown equipment	3.1 Monitor and interpret output data from breakdown equipment control system according to workplace procedures 3.2 Monitor and assessed output quality from breakdown equipment, identify equipment faults and other sources of quality variations and take corrective action or report to appropriate personnel according to workplace procedures 3.3 Complete production, maintenance and quality records according to workplace procedures

<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>
4. Implement routine maintenance procedures for breakdown equipment	4.1 Carry out preventative maintenance and cleaning for breakdown equipment according to workplace procedures 4.2 Coordinate saw changes with other staff and make adjustments to breakdown equipment according to workplace procedures

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<b>Foundation Skills</b>	
<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>	
<b>Skill</b>	<b>Description</b>
Writing	<ul style="list-style-type: none"> <li>Prepare routine written reports using the required format, language and structure</li> </ul>
Oral communication	<ul style="list-style-type: none"> <li>Employ active listening and questioning on routine matters related to output quality and equipment history records</li> </ul>
Numeracy	<ul style="list-style-type: none"> <li>Count number of logs to be sawn</li> <li>Perform basic calculations to determine feed rate to optimise quality and quantity of production output</li> </ul>

<b>Unit Mapping Information</b>			
<b>Code and title current version</b>	<b>Code and title previous version</b>	<b>Comments</b>	<b>Equivalence status</b>
FWPSAW3XXX Operate conventional log breakdown saw line	FWPSAW3230 Perform primary log breakdown	Unit redesigned to remove duplication. It incorporates content from FWPSAW3230, FWPSAW3241 and FWPSAW3231	Not equivalent
FWPSAW3XXX Operate conventional log breakdown saw line	FWPSAW3231 Perform secondary log breakdown	Unit redesigned to remove duplication. It incorporates content from FWPSAW3230, FWPSAW3241 and FWPSAW3231	Not equivalent
FWPSAW3XXX Operate conventional log breakdown saw line	FWPSAW3241 Set up and operate production saws used in sawmill operations	Unit redesigned to remove duplication. It incorporates content from FWPSAW3230, FWPSAW3241 and FWPSAW3231	Not equivalent

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

TITLE	Assessment requirements for FWPSAW3XXX Operate conventional log breakdown saw line
<b>Performance Evidence</b>	
<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 run and monitored a conventional log breakdown saw line for one production cycle in an equipment configuration specific to one of the following sawmill operations:</p> <ul style="list-style-type: none"> <li>• primary processing operations</li> <li>• secondary processing operations.</li> </ul> <p>In performing this task, the individual has:</p> <ul style="list-style-type: none"> <li>• followed workplace safety and operating procedures</li> <li>• checked equipment, production input and process readiness to ensure operational effectiveness</li> <li>• selected and adhered to a cutting schedule during breakdown operation to optimise grade, size and recovery</li> <li>• verified output quality and identified two real or hypothetical reasons for quality variations and corrective actions</li> <li>• performed routine equipment maintenance and cleaning operations</li> <li>• produced routine reports containing information on production, maintenance, and quality.</li> </ul>	
<b>Knowledge Evidence</b>	
<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"> <li>• types of hazards, associated risks and mitigation measures associated with breaking down logs</li> <li>• workplace procedures specific to breaking down logs: <ul style="list-style-type: none"> <li>• health and safety, including use of personal protective equipment (PPE) and equipment lock-out</li> <li>• communication reporting lines</li> <li>• recording and reporting of processing problems and equipment faults</li> <li>• emergency procedures</li> </ul> </li> <li>• environmental protection practices specific to timber processing plants: <ul style="list-style-type: none"> <li>• reducing water and energy use</li> <li>• cleaning plant, tools and equipment</li> <li>• disposing of, recycling and reusing timber</li> </ul> </li> <li>• log breakdown equipment in workplace environment <ul style="list-style-type: none"> <li>• configuration</li> <li>• purpose</li> <li>• components</li> <li>• operating parameters</li> <li>• capability</li> <li>• operation</li> </ul> </li> <li>• safety features of breakdown equipment: <ul style="list-style-type: none"> <li>• isolation procedures</li> <li>• stop button</li> <li>• lock-out switch or system</li> <li>• hold cards</li> <li>• guards</li> </ul> </li> <li>• log breakdown process</li> <li>• distinction between primary and secondary log breakdown</li> <li>• typical workflow for breaking down logs</li> <li>• downstream processing options for log breakdown operations</li> <li>• range of cutting patterns used on logs to optimise for maximum recovery and maximum value</li> <li>• range of feed rates and how they affect production output and finished quality</li> <li>• factors that impact on output quality in log breakdown operations: <ul style="list-style-type: none"> <li>• log or timber characteristics and defects</li> <li>• variations in size</li> </ul> </li> </ul>	

<b>Knowledge Evidence</b>	
<ul style="list-style-type: none"> <li>• blunt and damaged saws</li> <li>• log breakdown equipment faults including methods for assessing saw blade condition</li> <li>• routine operator maintenance activities associated with sawing operations.</li> </ul>	
<b>Assessment Conditions</b>	
<p>Assessment of the skills in this unit of competency must take place under the following conditions:</p> <ul style="list-style-type: none"> <li>• physical conditions:                             <ul style="list-style-type: none"> <li>• skills must be demonstrated in a timber processing plant or an environment that accurately represents workplace conditions</li> </ul> </li> <li>• resources, equipment and materials:                             <ul style="list-style-type: none"> <li>• conventional log breakdown equipment</li> <li>• PPE suitable for log breakdown operations</li> <li>• logs for processing</li> </ul> </li> <li>• specifications:                             <ul style="list-style-type: none"> <li>• workplace procedures for log breakdown operations</li> <li>• workplace emergency procedures relevant to log breakdown operations</li> <li>• workplace health and safety and environmental policies and procedures applicable to log breakdown operations.</li> </ul> </li> </ul> <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>	
<b>Links</b>	<p>Companion Volumes, including Implementation Guides, are available at VETNet:  <a href="https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47">https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47</a></p>