

**Modification history**

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

<b>FWPSAW3XXX</b>	<b>Control and monitor automated green mill saw line</b>
<b>Application</b>	<p>This unit of competency describes the skills and knowledge required to control and monitor a fully automated saw line from control room to cut logs into green sawn timber.</p> <p>The unit applies to individuals who operate automated green mill 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 to control and monitor green mill automated saw line	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 1.3 Identify, assess and mitigate hazards and take actions to control risks associated with saw line operations 1.4 Confirm emergency procedures and actions to be taken in the event of an emergency situation
2. Configure green mill automated saw line optimising program	2.1 Set optimising program to job specifications 2.2 Conduct trial runs to check system operation, accuracy and quality of finished work 2.3 Complete final adjustments to optimising program
3. Control and monitor green mill automated saw line	3.1 Control and monitor saw line according to workplace procedures and manufacturer instructions 3.2 Start-up and log onto control and data acquisition system to operate saw line 3.3 Feed logs into saw line 3.4 Monitor sawing operation through control and data acquisition system and make system adjustments to meet production output, product quality and maximum recovery 3.5 Identify and correct minor deviations to normal operating parameters of saw line 3.6 Report non-routine processing and equipment problems to relevant personnel
4. Maintain process control and data acquisition system for green mill automated saw line	4.1 Conduct routine planned inspections of control and data acquisition system according to manufacturer requirements 4.2 Report faults and maintenance requirements to relevant personnel

<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>Perform precise mathematical calculations to determine the correct alignment of key parts of the sawing system according to specified settings</li> <li>Use basic mathematical symbols and conventions in completing workplace reports related to alignment activities</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 Control and monitor automated green mill saw line	FWPSAW3249 Saw logs using CNC optimising systems	New unit title; Revised Application, Elements and Performance Criteria; Revised Foundation Skills; Updated Performance Evidence, Knowledge Evidence and Assessment Conditions.	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>
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<b>TITLE</b>	<b>Assessment requirements for FWPMOP3XXX Control and monitor automated green mill saw line</b>
<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, monitored and controlled a fully automated green mill saw line from control room for one production cycle according to workplace safety and operating procedures.</p> <p>In performing this task, the individual has:</p> <ul style="list-style-type: none"> <li>checked system operation for compliance with job-specific operational and optimisation requirements</li> <li>monitored control and data acquisition system and optimising program and adjusted the system to meet production parameters and requirements</li> <li>conducted routine scheduled checks of the control and data collection systems and communicated any deficiencies or maintenance requirements to relevant personnel.</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>workplace procedures specific to control and monitoring of fully automated green mill saw line: <ul style="list-style-type: none"> <li>health and safety, including use of personal protective equipment (PPE) and equipment lock-out</li> <li>communication procedures</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>features and components of fully automated green mill saw line</li> <li>features and operation of control and data acquisition system for automated green mill saw line</li> <li>basic components and functions of mechatronic systems for automated green mill saw line: <ul style="list-style-type: none"> <li>sensors</li> <li>actuators</li> <li>controllers</li> </ul> </li> <li>workflow processes for automated green mill saw line</li> <li>typical flow of log supply in and out of the sawing area in green mill</li> <li>range of cutting patterns used on logs to achieve maximum output of flitches and cants</li> <li>range of feed rates and how they affect production output and finished quality of flitches and cants</li> <li>purpose, features and configuration of optimisation program for automated green mill saw line</li> <li>typical log defects and how they affect ability to produce quality flitches and cants: <ul style="list-style-type: none"> <li>warp</li> <li>wane</li> <li>curvature</li> <li>cupping</li> <li>shakes</li> <li>insect defects</li> <li>knots</li> <li>resin pockets.</li> </ul> </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> </ul>	

Assessment Conditions	
<ul style="list-style-type: none"><li>resources, equipment and materials:<ul style="list-style-type: none"><li>fully automated green mill saw line</li><li>PPE suitable for green mill saw line operations</li><li>logs for processing</li></ul></li><li>specifications: workplace procedures for control and monitoring automated green mill saw line<ul style="list-style-type: none"><li>workplace emergency procedures relevant to green mill saw line operations</li><li>template documents for recording equipment faults and maintenance requirements</li><li>workplace health and safety and environmental policies and procedures applicable to saw line operations.</li></ul></li><li>relationships:<ul style="list-style-type: none"><li>relevant workplace personnel to communicate with about saw line 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>	
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