

**Modification history**

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 6.0.

FWPCOT2XXX	Cut material to shape using a saw
<b>Application</b>	This unit of competency describes the skills and knowledge required to prepare and cut material to shape using sawing equipment in order to produce shaped timber products and to performance basic operator maintenance of sawing equipment. Work is completed in forest products factory settings, and the unit applies to production workers, sawmill workers, manufacturing assistants, and saw operators. No licensing, legislative or certification requirements apply to this unit at the time of publication.
<b>Prerequisite Unit</b>	Nil
<b>Unit Sector</b>	Common technical (COT)

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 shaping	1.1 Read and interpret work order to determine required product specifications and where required, check with appropriate person 1.2 Identify and follow workplace safety and environmental requirements 1.3 Select, fit and use personal protective equipment (PPE) 1.4 Identify type and calculate quantity of materials to be shaped and obtain from storage location 1.5 Select appropriate equipment and check for operational effectiveness in line with manufacturer's recommendations 1.6 Identify profile to be cut and select cutting blades
2. Set up shaping equipment	2.1 Follow lock out procedures, select and attach machine guides to machinery 2.2 Check saw blade for sharpness and correct alignment 2.3 Use equipment in line with workplace safety procedures, manufacturer's instructions and environmental requirements 2.4 Set cut in line with required shape and to minimise waste 2.5 Stack materials in close proximity to maximise ease of machine feeding 2.6 Test equipment set-up for correct alignment through trial run on timber and adjust as required
3. Cut material to shape	3.1 Reject material with defects and dispose of in line with workplace and environmental requirements 3.2 Feed material into machine at feed rate prescribed in manufacturer's instructions 3.3 Follow, maintain and adjust cutting sequence to produce required quantity and maximise feed rate 3.4 Check jig or shape line regularly and adjust to maintain desired cut 3.5 Stack material safely in designated location in line with workplace requirements 3.6 Identify routine processing and equipment faults and resolve or report to appropriate person 3.7 Complete production and quality records and report in line with organisational 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. Complete operator maintenance	4.1 Follow organisational safety procedures to lock out equipment 4.2 Check saw blades for bluntness or damage 4.3 Remove and replace saw blades in line with manufacturer's recommendations 4.4 Dispose of used blades in line with workplace and environmental requirements 4.5 Complete basic non-specialist maintenance for equipment 4.6 Keep machine area clear of dust, off-cuts and debris 4.7 Clean work area and reuse, recycle waste and dispose of debris following workplace and environmental requirements 4.8 Record and report equipment faults and maintenance requirements to appropriate 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>
Reading	<ul style="list-style-type: none"> <li>Extract and interpret relevant and necessary information from workplace documentation</li> </ul>
Writing	<ul style="list-style-type: none"> <li>Complete production records and reports clearly, accurately using technical specific vocabulary</li> </ul>
Oral communication	<ul style="list-style-type: none"> <li>Ask questions and actively listen to clarify contents of work orders</li> <li>Use industry terminology to accurately specify processing and equipment faults</li> </ul>
Numeracy	<ul style="list-style-type: none"> <li>Use basic mathematical formulas to calculate material quantities</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>
FWPCOT2XXX Cut material to shape using a saw	FWPCOT2232 Cut material to shape using a saw		Equivalent unit

<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 FWPCOT2XXX Cut material to shape using a saw</b>
<b>Performance Evidence</b>	
<p>An individual demonstrating competency in this unit must satisfy all of the elements and performance criteria in this unit.</p> <p>There must be evidence that the individual has, for at least two different work orders, cut material to shape and completed basic non-specialist maintenance, using one or more of the following saws:</p> <ul style="list-style-type: none"> <li>• Band saw</li> <li>• Jig saw</li> <li>• Computer numerical control (CNC) saw</li> </ul> <p>Material to be cut must include two or more of the following:</p> <ul style="list-style-type: none"> <li>• native timber species</li> <li>• imported timber species</li> <li>• dressed timber</li> <li>• in-the-rough timber</li> <li>• stress and non-stress graded timber</li> <li>• preservative treated timber</li> <li>• medium density fibreboard</li> <li>• laminated veneer</li> <li>• chipboard</li> <li>• fibreboard and other manufactured board products</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, purpose, features, operation and basic non-specialist repair and maintenance of tools and equipment used for cutting material to shape including: <ul style="list-style-type: none"> <li>• measuring equipment</li> <li>• band saws</li> <li>• jig saws</li> <li>• CNC saws</li> <li>• machine guides</li> <li>• methods for assessing saw blade condition</li> </ul> </li> <li>• shapes, feed rates and finish</li> <li>• environmental requirements for forest products factory settings: <ul style="list-style-type: none"> <li>• cleaning plant, tools and equipment</li> <li>• disposing of, recycling and reusing timber</li> </ul> </li> <li>• storage layout and categories for: <ul style="list-style-type: none"> <li>• raw materials</li> <li>• stacking finished materials</li> </ul> </li> <li>• typical timber defects and effect on producing a quality finished shaped timber product: <ul style="list-style-type: none"> <li>• warp</li> <li>• wane</li> <li>• cupping</li> <li>• shakes</li> <li>• insect defects</li> <li>• knots</li> <li>• resin pockets</li> </ul> </li> <li>• organisational policies and procedures specific to cutting material to shape</li> <li>• workplace safety: <ul style="list-style-type: none"> <li>• equipment lock out</li> <li>• use and maintenance of equipment and machinery</li> <li>• hazard identification and control measures</li> <li>• job safety and environmental analysis (JSEA)</li> </ul> </li> </ul>	

<b>Knowledge Evidence</b>	
<ul style="list-style-type: none"> <li>• personal protective equipment (PPE)</li> <li>• communication reporting lines</li> <li>• recording and reporting production outcomes and equipment faults.</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 the workplace or an environment that accurately represents workplace conditions</li> </ul> </li> <li>• resources, equipment and materials: <ul style="list-style-type: none"> <li>• variety of different types of material to cut to shape</li> <li>• band, jig or CNC saw</li> <li>• PPE</li> </ul> </li> <li>• specifications: <ul style="list-style-type: none"> <li>• workplace safety and environmental documentation</li> <li>• manufacturer's specifications and instructions</li> </ul> </li> <li>• relationships: <ul style="list-style-type: none"> <li>• person to confirm work orders and report equipment faults and equipment maintenance.</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>	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>