

**Modification history**

Release	Comments
Release 2	This version released with FWP Forest and Wood Products Training Package Version [4.0]  Version created to update workplace health and safety requirements in performance criteria and clarify intent of unit and assessment requirements.
Release 1	This version replaces equivalent unit FPICOT3228B Plane/sand panels, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2.  This is the first release of this unit in the new standards format.

UNIT CODE	FWPCOT3228 Plane/sand panels
<b>Application</b>	<p>This unit of competency describes the skills and knowledge required to plane and sand the surfaces of <u>timber, veneer and engineered wood panels or products in a timber manufacturing facility</u>, optimising board thickness or retaining integrity of veneers. Work <del>is complete in a forest products factory setting and includes also involves</del> operator maintenance.</p> <p>The unit applies to individuals who work as timber products technicians and production workers. <u>Operators generally work under broad or limited direction to complete routine activities related to own work and take responsibility for their work.</u></p> <p><u>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.</u></p> <p>No licensing, legislative, regulatory, or certification requirements apply to this unit at the time of publication.</p>
<b>Prerequisite Unit</b>	Nil
<b>Unit Sector</b>	Common Technical

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 planing and sanding <u>timber, veneer and engineered wood panels or products</u>	<p>1.1 Review work order and where required check with appropriate personnel</p> <p><del>1.2 Select appropriate personal protective and other equipment and check for operational effectiveness.</del></p> <p><u>1.2 Follow workplace health and safety requirements, environmental protection practices and emergency procedures and use personal protective equipment (PPE) in line with operational requirements throughout operation</u></p> <p><u>1.3 Identify and report hazards, accidents, incidents and/or near misses in line with operational requirements and health and safety legislative requirements to maintain safe work practices.</u></p> <p>1.3 Obtain type and quantity of <u>timber, veneer or engineered wood panels or products</u> for planing or sanding from the production process-</p> <p><del>1.4 Plan planing or sanding process in line with work order.</del></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>
2. Plane and sand <u>timber, veneer and wood fibre panels or products</u>	2.1 Use equipment in line with organisational safety procedures, manufacturer's instructions and environmental protection practices- 2.2 Complete pre start-up checks and set planing or sanding thickness and feed rate for optimal product recovery- 2.3 Position material and feed at rate appropriate to machine speed, capacity, <u>timber</u> board or veneer panel thickness and condition- 2.4 Plane or sand <u>timber, veneer or engineered wood panels or products</u> panels to specification and assess panel visually throughout process for thickness, finish quality and veneer faults- 2.5 Coordinate outfeed to ensure efficient recovery of planed or sanded material- 2.6 Check dust extraction equipment regularly and clean to avoid blockages
3. Redistribute material	3.1 Grade finished <u>timber, veneer or engineered wood panels or products</u> panels-for quality and use in line with industry standards 3.2 Direct material to storage or processing operations in line with organisational procedures 3.3 Dispose of sub-standard material in line with environmental protection practices 3.4 Clean work area in line with organisational safety procedures
4. Complete operator maintenance	4.1 <u>Lock out equipment</u> <del>Follow organisational</del> <u>in line with workplace health and safety procedures</u> <del>to lock-out equipment</del> 4.2 Check planer blades or sanding belts for bluntness or damage 4.3 Remove and replace planer blades or sanding belts in line with manufacturer's recommendations 4.4 Keep machine area clear of dust and debris in line with <u>organisational workplace health and</u> safety procedures 4.5 Record and report production outcomes, 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>
Numeracy	<ul style="list-style-type: none"> <li>identify quantities of required material within work orders and count numbers of panels</li> <li>interpret order sizes and set up equipment to achieve correct dimensions and grades</li> <li>calculate the feed rate to optimise quality and quantity of production output</li> </ul>
Oral communication	<ul style="list-style-type: none"> <li>ask open and closed probe questions and actively listen to clarify contents of work orders</li> </ul>
Reading	<ul style="list-style-type: none"> <li>interpret:               <ul style="list-style-type: none"> <li>workplace health and safety and other organisational procedures</li> <li>work orders</li> <li>manufacturer instructions and maintenance recommendations.</li> </ul> </li> </ul>
Writing	<ul style="list-style-type: none"> <li>complete accurate basic records for production outcomes, equipment faults and maintenance requirements</li> </ul>
Plan and organise	<ul style="list-style-type: none"> <li>efficiently and logically sequence the stages of preparation and production using work order to guide 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>
FWPCOT3228 Plane/sand panels	FWPCOT3228 Plane/sand panels	Updated workplace health and safety requirements in performance criteria and clarified intent of unit and assessment requirements	Equivalent unit

<b>Links</b>	Companion Volume Implementation Guide - <a href="https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47">https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47</a>
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TITLE	Assessment requirements for FWPCOT3228 Plane/sand panels
<b>Performance Evidence</b>	
<p>An individual demonstrating competency must satisfy all of the elements, performance criteria and foundation skills of this unit. There must be evidence that, on at least one occasion, the individual has:</p> <ul style="list-style-type: none"> <li>• followed organisational policies and procedures relevant to planing and sanding <u>timber, veneer or engineered wood panels or products</u></li> <li>• planed and sanded <u>timber, veneer or engineered wood panels or products</u> in readiness for application to panel products or for interim storage</li> <li>• redistributed material on site using designated equipment</li> <li>• conducted operator maintenance on planing and sanding equipment.</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>• <u>health and operational hazards or risks related to operating equipment for planing and sanding timber, veneer or engineered wood panels or products as identified through risk assessments, manufacturer technical information, regulations and industry health and safety guides</u></li> <li>• organisational policies and procedures specific to planing and sanding <u>timber, veneer or engineered wood panels or products</u>: <ul style="list-style-type: none"> <li>• workplace health and safety with particular emphasis on equipment lock out and use of personal protective equipment</li> <li>• <u>use of equipment</u></li> <li>• communication reporting lines</li> <li>• recording and reporting production outcomes, equipment faults and maintenance requirements</li> </ul> </li> <li>• environmental protection practices for forest products factory settings: <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 and other waste planing or sanding techniques</li> </ul> </li> <li>• methods of visual inspection <u>of timber, veneer or engineered wood panels or products for thickness, finish quality and veneer faults</u></li> <li>• characteristics of timber and veneer</li> <li>• typical flow of material supply in and out of the planing and sanding area</li> <li>• typical work flow processes and sanding techniques for optimising thickness, finish and quality of timber and veneer panels</li> <li>• typical timber and veneer defects and how they affect ability to produce quality finished 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> <li>• lifting veneer</li> <li>• bonding problems</li> </ul> </li> <li>• key features of, and applicable terminology for, industry standard grades for re-classifying quality and use of planed and sanded timber and veneer panels</li> <li>• purpose, features and operation of equipment used to plane and sand panels: <ul style="list-style-type: none"> <li>• panel planers or thicknessers</li> <li>• surface planers or buzzers</li> <li>• drum sanders</li> <li>• panel sanders</li> <li>• veneer sanders</li> <li>• stroke sanders</li> <li>• dust extraction equipment:</li> </ul> </li> <li>• machine specific dust extraction systems with collection bags</li> </ul>	

<b>Knowledge Evidence</b>
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| <ul style="list-style-type: none"> <li>• hopper-based extraction systems</li> <li>• methods for assessing condition of planer blades and sanding belts.</li> </ul> |
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<b>Assessment Conditions</b>
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<p>Assessment of skills must take place under the following conditions:</p>
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| <ul style="list-style-type: none"> <li>• physical conditions: <ul style="list-style-type: none"> <li>• skills must be demonstrated in an environment that accurately represents workplace conditions</li> </ul> </li> <li>• resources, equipment and materials: <ul style="list-style-type: none"> <li>• planing equipment</li> <li>• sanders including one or more of the following: drum sanders, panel sanders, veneer sanders, stroke sanders</li> <li>• dust extraction equipment</li> <li>• maintenance tools and equipment for planers and sanders</li> <li>• consumable planer blades and sanding belts</li> <li>• personal protective equipment suitable for planing and sanding panels</li> <li>• commercial timber, <del>or</del> veneer <u>or engineered wood</u> panels <u>or products</u></li> </ul> </li> <li>• specifications: <ul style="list-style-type: none"> <li>• manufacturer instructions for use and maintenance of equipment</li> <li>• work order with specific instructions for planing and sanding panels</li> <li>• <u>workplace health and safety and emergency procedures</u></li> <li>• <u>environmental protection procedures</u></li> <li>• organisational policies and procedures for planing and sanding panels</li> <li>• template documents for recording production outcomes, equipment faults and maintenance requirements.</li> </ul> </li> </ul> |
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<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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<b>Links</b>	Companion Volumes, including Implementation Guides, are available at VETNet: <a href="https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47">https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47</a>
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