



Australian Government

FWPTMM3216 Plane and sand engineered wood product

Release: 1

FWPTMM3216 Plane and sand engineered wood product

Modification History

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

Application

This unit of competency describes the skills and knowledge required to plane and sand the surfaces of engineered wood products in a timber manufacturing facility, optimising product thickness while retaining its integrity.

The unit applies to individuals who operate planing and sanding equipment used in the production of engineered wood products.

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.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Timber Manufactured Products (TMM)

Elements and Performance Criteria

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 engineered wood product	1.1 Determine job requirements from work order or instructions and, where required, check with appropriate personnel 1.2 Confirm workplace health and safety and environmental protection practices and/or procedures for task, including use of personal protective equipment and equipment lock-out

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.3 Identify and assess hazards and take actions to mitigate risks related to engineered wood product dressing operations 1.4 Obtain type and quantity of engineered wood product for planing and sanding from the production process
2. Plane and sand engineered wood product	2.1 Complete pre-start-up checks and set planing and sanding thickness and feed rate for optimal product recovery 2.2 Position material and feed at a rate appropriate to machine speed, capacity, engineered wood product thickness and condition 2.3 Plane and sand engineered wood product to specification and assess product visually throughout the process for thickness, finish quality and faults 2.4 Coordinate outfeed to ensure efficient recovery of planed and sanded material 2.5 Check dust extraction equipment regularly and clean to avoid blockages
3. Redistribute finished engineered wood product	3.1 Grade finished engineered wood product for quality and use according to industry standards 3.2 Direct material to storage or processing operations according to workplace procedures 3.3 Dispose of sub-standard material according to workplace environmental protection practices and/or procedures 3.4 Clean work area according to workplace health and safety procedures
4. Complete operator maintenance	4.1 Lock out equipment according to workplace health and safety procedures 4.2 Check planer blades and sanding belts for deterioration or damage 4.3 Remove and replace planer blades and sanding belts according to manufacturer recommendations 4.4 Keep machine area clear of dust and debris according to workplace health and safety procedures 4.5 Record and report production outcomes, equipment faults and maintenance requirements to appropriate personnel

Foundation Skills

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.

Skill	Description
Reading	Interpret routine information from work orders and manufacturer instructions for planing and sanding operations
Oral communication	Ask open and closed probing questions and actively listen to clarify contents of work orders and production documentation
Numeracy	- Estimate quantities and dimensions of materials used in planing and sanding operations - Calculate feed rate to optimise quality and quantity of production output

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPTMM3216 Plane and sand engineered wood product	FWPCOT3268 Plane and sand engineered wood products	Minor edits to unit title, Performance Criteria Updated Foundation Skills Revised Performance Evidence Minor edits to Knowledge Evidence	Equivalent

Links

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

Assessment Requirements for FWPTMM3216 Plane and sand engineered wood product

Modification History

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

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has planed and sanded the surfaces of any engineered wood product type for one production run, according to work instructions, using one of the following items of equipment:

- planer or thicknesser
- surface planer or buzzer
- drum sander
- sander
- veneer sander
- stroke sander
- other workplace planing or sanding equipment for engineered wood products.

In performing this task, the individual has:

- followed workplace health and safety, environmental protection and operating procedures
- selected and used personal protective equipment (PPE)
- performed pre-operational equipment checks
- set planing and sanding thickness and feed rate to equipment for optimal product recovery
- assessed product thickness, finish quality and faults visually throughout the process
- graded and directed finished product to storage or further processing
- disposed of sub-standard product
- conducted operator maintenance on planing and sanding equipment.

Knowledge Evidence

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:

- health and safety hazards or risks related to operating equipment for planing and sanding engineered wood products, as identified through risk assessments, manufacturer technical information, regulations and industry health and safety guides
- workplace policies and procedures specific to planing and sanding engineered wood products, including:
 - health and safety, with particular emphasis on equipment lock-out, dust suppression and use of PPE
 - use of timber planing and sanding equipment
 - communication reporting lines
 - recording and reporting production outcomes, equipment faults and maintenance requirements
- workplace environmental protection requirements and practices for engineered wood product operations, including:
 - reducing water and energy use
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing timber and other waste
- techniques for planing and sanding engineered wood product
- methods of visual inspection of engineered wood product for thickness, finish quality and faults
- characteristics of relevant engineered wood product
- typical flow of material supply in and out of the planing and sanding area in engineered wood products manufacturing setting
- typical workflow processes and sanding techniques for optimising thickness, finish and quality of engineered wood product
- typical engineered wood product defects and how they affect the ability to produce quality finished product, including:
 - warp
 - wane
 - cupping
 - shakes
 - insect defects
 - knots
 - resin pockets
 - lifting veneer
 - bonding problems
- key features of, and applicable terminology for, industry standard grades for re-classifying quality and use of planed and sanded engineered wood products
- purpose, features and operation of equipment used to plane and sand engineered wood product in workplace environment
- methods for assessing condition of planer blades and sanding belts.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a timber product manufacturing plant or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - planing and sanding equipment
 - dust extraction equipment
 - maintenance tools and equipment for planers and sanders
 - planer blades and sanding belts
 - PPE suitable for planing and sanding engineered wood products
 - engineered wood products suitable for planing and sanding operations
- specifications:
 - manufacturer instructions for use and maintenance of equipment
 - work order or instructions with specific instructions for planing and sanding engineered wood product
 - workplace health and safety, emergency and environmental protection policies and/or procedures for planing and sanding engineered wood product.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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