



Australian Government

FWPWPP3232 Operate a heat roll bonding machine to laminate or veneer engineered wood panel surfaces

Release: 1

FWPWPP3232 Operate a heat roll bonding machine to laminate or veneer engineered wood panel surfaces

Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 4.0.

Application

This unit of competency describes the skills and knowledge required to operate heat roll bonding machines and ancillary equipment to apply laminate or veneer to engineered wood panel surfaces in a manufacturing facility.

The unit applies to individuals who work as production operators and technicians in an engineered wood panel facility. Operators generally work under broad or limited direction to complete routine activities related to their own work, and take responsibility for their work.

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, regulatory or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Wood Panel Products

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 lamination work	1.1 Review work order, workplace health and safety requirements, environmental protection practices and emergency procedures for lamination operation and, where required, check with appropriate

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	personnel 1.2 Identify and report hazards and use personal protective equipment according to workplace requirements and health and safety legislation to maintain safe work practices 1.3 Obtain the type and quantity of engineered wood panel and laminate or veneer to be laminated from the production process 1.4 Select production process according to work order
2. Apply laminate or veneer	2.1 Use equipment according to workplace health and safety procedures, manufacturer instructions and environmental protection practices 2.2 Complete pre start-up equipment checks to ensure operational effectiveness 2.3 Load veneer or laminate and engineered wood panel and feed in the correct sequence to suit planned assembly 2.4 Adjust spreader stations to deliver material according to required engineered wood panel cross-section distribution 2.5 Adjust glue feed, spread and tack level regularly, apply glue to engineered wood panel evenly and ensure panel remains free of foreign material 2.6 Check heat rolling process regularly to prevent creases, bubbles and other surface defects 2.7 Monitor laminate or veneer routinely for the position, adhesion, contamination, finish and trim tolerances 2.8 Transfer finished engineered wood panels for further processing according to workplace health and safety procedures 2.9 Dispose of sub-standard material according to environmental protection practices
3. Shut down and clean equipment	3.1 Coordinate shutdown with other line operators according to workplace health and safety procedures 3.2 Strip, clean and replace gluing equipment, rollers, cauls, screens and handling equipment 3.3 Check cutters or blades for bluntness or damage and remove and replace according to manufacturer recommendations 3.4 Keep machine clear of dust and debris according to workplace health and safety procedures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	3.5 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 safety data sheets for glue
Numeracy	- Identify quantities of required material within work orders, and count numbers of engineered wood panels and other materials - Read basic numerical machine settings to set temperatures and glue feed rate
Navigate the world of work	Understand main tasks, responsibilities and boundaries of own role
Interact with others	Use modes of communication suitable for the purpose to confirm and clarify understanding
Get the work done	Recognise and respond to routine problems

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPWPP3232 Operate a heat roll bonding machine to laminate or veneer engineered wood panel surfaces	FWPWPP3206 Laminate and veneer board surfaces	Updated industry terminology, workplace health and safety requirements and foundation skills; clarified intent of the unit and assessment requirements; changed unit title and code for	Equivalent unit

		compliance and consistency with the updates.	
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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 FWPWPP3232 Operate a heat roll bonding machine to laminate or veneer engineered wood panel surfaces

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Performance Evidence

An individual demonstrating competency in this unit must satisfy all of the elements and performance criteria of this unit. There must be evidence that, on at least one occasion, the individual has:

- followed workplace health and safety requirements and environmental protection procedures for laminating engineered wood panels
- laminated one or more of the following engineered wood panels according to individual work orders prescribing different laminating thicknesses and quantities of panels:
 - medium density fibreboard
 - chipboard
 - fibreboard
 - plywood
- applied one or more of the following types of laminating material:
 - laminate
 - veneer
- stripped and cleaned the heat roll bonding machine.

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 using heat roll bonding machines and ancillary equipment for laminating engineered wood panels, as identified through risk assessments, manufacturer technical information, regulations and industry health and safety guides
- workplace procedures specific to laminating engineered wood panel surfaces:
 - health and safety, with particular emphasis on equipment lockout, emergency procedures, use of personal protective equipment (PPE) and handling hazardous substances according to safety data sheets for glue

- use of laminating equipment
- communication reporting lines
- recording and reporting production outcomes, equipment faults and maintenance requirements
- environmental protection practices for engineered wood panel facilities:
 - reducing water and energy use
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing boards
 - disposing of hazardous substances
- typical flow of material supply in and out of the engineered wood panel laminating area
- properties, at a basic level of understanding, of laminating materials and their uses for different types of engineered wood panels:
 - laminate
 - veneer
- characteristics of engineered wood products types and the effects of lamination:
 - medium density fibreboard
 - chipboard
 - fibreboard
 - plywood
- typical workflow processes and techniques used to laminate and veneer engineered wood panels:
 - applying laminating material and veneer
 - spreading glue
 - heat rolling material to boards
- purpose, features and operation of equipment used to laminate or veneer engineered wood panel surfaces:
 - laminate bonding machines
 - glue spreading stations
 - heat rollers
- methods used to strip and clean laminate and veneer bonding machines.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a workplace or a productive environment that accurately reflects performance in a workplace
- resources, equipment and materials:
 - heat roll bonding machine and ancillary equipment for laminating engineered wood panels
 - maintenance tools and equipment

- PPE suitable for laminating and veneering engineered wood panel surfaces
- engineered wood panels suitable for lamination operations
- laminating material
- glue
- specifications:
 - manufacturer instructions for use and cleaning of equipment
 - work order with specific instructions for laminating and veneering engineered wood panel surfaces
 - template documents for recording production outcomes, equipment faults and maintenance requirements
 - workplace procedures for laminating and veneering engineered wood panel surfaces, including health and safety and emergency procedures and environmental protection procedures.

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

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