



Australian Government

FWPTMM3219 Develop knowledge of reconstituted wood panel production

Release: 1

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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 develop a current understanding of the processes involved in the production of a reconstituted wood panel product, selected from chipboard, hardboard, medium and high-density fibre board (MDF), oriented strand board (OSB) or particle board. It includes types and characteristics of the selected reconstituted wood panel product, stages in the production of the reconstituted wood panel product, adhesives and adhesive systems used in the production of reconstituted wood panel product, and quality control in the production of reconstituted wood panel product.

The unit applies to individuals who are engaged in a range of operational work roles in the production of reconstituted wood panel 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>

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1. Identify properties and uses of selected reconstituted wood panel product	1.1 Identify mechanical and physical properties of reconstituted wood panel product 1.2 Identify application of reconstituted wood panel product in building and construction 1.3 Assess advantages and disadvantages of using reconstituted wood panel product as a building and construction material
2. Research production process for selected reconstituted wood panel product	2.1 Identify legislation, standards and codes of practice relevant to reconstituted wood panel production 2.2 Assess safety and environmental hazards associated with production of reconstituted wood product 2.3 Determine workflow in production of reconstituted wood product and assess factors that may impact on that workflow 2.4 Identify equipment and processes involved in production of reconstituted wood product
3. Identify adhesives and adhesive systems used in production of selected reconstituted wood panel product	3.1 Identify types, properties and hazards associated with adhesives used in production of reconstituted wood panel product 3.2 Identify types and applications of adhesive systems used in production of reconstituted wood product
4. Assess quality control checks in production of selected reconstituted wood panel product	4.1 Identify factors that influence bond quality in production of reconstituted wood product 4.2 Identify quality control check points in production of reconstituted wood product 4.2 Assess quality parameters and process data collected and monitored during production of reconstituted wood product

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
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Skill	Description
Reading	- Interpret safety data sheets on adhesives used in production of reconstituted wood panel product - Recognise key information in technical documents related to production of reconstituted wood panel product

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPTMM3219 Develop knowledge of reconstituted wood panel production	Not applicable	The unit has been created to address a skill or task required by industry that is not covered by an existing unit	Newly created

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 FWPTMM3219 Develop knowledge of reconstituted wood panel production

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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 researched one reconstituted wood panel product selected from the following:

- chipboard
- hardboard
- medium or high-density fibre board (MDF)
- oriented strand board (OSB)
- particle board

In the performing this task, the individual has identified:

- legislation, standards and codes of practice relevant to reconstituted wood panel production
- two mechanical and physical properties of the reconstituted wood panel product
- one application of reconstituted wood panel product in the building and construction industry
- one advantage and one disadvantage of using reconstituted wood panel product in building and construction
- production workflow for reconstituted wood panel product and two factors that may affect workflow performance
- one type of adhesive and one type of adhesive system used in the production of reconstituted wood panel product
- properties and one potential hazard of one adhesive product used in production of reconstituted wood panel product
- three examples of quality control check points in production of reconstituted wood panel product
- three factors that may affect adhesion quality in production of reconstituted wood panel product.

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:

- mechanical and physical properties of reconstituted wood panel product, including:
 - Australian Standard specification for dimensions
 - moisture properties
 - absorption and swelling
 - dimensional changes
 - thermal properties
 - acoustic properties
 - bio-deterioration
- key requirements of legislation, standards and codes of practice, including National Construction Code, relevant to reconstituted wood panel production
- application of reconstituted wood panel product in building and construction, including:
 - uses of product
 - advantages of use in building and construction:
 - disadvantages of use in building and construction
- stages involved in production of reconstituted wood panel product, including:
 - raw material procurement or generation
 - particle preparation
 - drying
 - blending with adhesive and sometimes wax
 - forming
 - pressing
 - finishing
- factors impacting on workflow in production of reconstituted wood panel product, including:
 - availability of raw materials
 - operational, supervisory and management skills
 - access to and maintenance of plant and equipment
- types, properties and hazards of adhesives used in production of reconstituted wood panel product
- types and applications of adhesive systems used in production of reconstituted wood panel product
- quality control check points in production process for reconstituted wood panel product
- quality parameters and process data collected and monitored during production process
- defects in reconstituted wood panel product
- factors that may affect adhesion quality in production of reconstituted wood panel product
- safety and environmental hazards associated with production of reconstituted wood panel product.

Assessment Conditions

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

- resources, equipment and materials:
 - reference materials on production process for reconstituted wood panel product and adhesives and adhesive systems used in production of reconstituted wood product
 - internet access and computer software and hardware for accessing technical information on production of reconstituted wood panel product
- specifications:
 - sections of National Construction Code related to application of reconstituted wood panel product in building and construction.

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

Links

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