Title	Demonstrate knowledge of adhesive use in wood product manufacturing		
Level	3	Credits	10

Purpose	People credited with this unit standard are able to: demonstrate knowledge of properties of adhesives used in wood product manufacturing; describe storage and handling requirements of adhesives used in wood product manufacturing; and demonstrate knowledge adhesive failures in wood product manufacturing.
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Classification	Solid Wood Manufacturing > Wood Product Manufacturing Skills
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Available grade	Achieved
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Guidance Information

Legislation
 Health and Safety at Work Act 2015.

2 Definitions

Accepted industry practice refers to approved codes of practice and standardised procedures accepted by the wider wood manufacturing industry as examples of best practice.

Workplace procedures refer to documented policies and procedures set by the organisation carrying out the work, and to documented or other directions provided to staff, and applicable to the tasks being carried out. They may include but are not limited to – standard operating procedures, site specific procedures, site safety procedures, equipment operating procedures, quality assurance procedures, product quality specifications, references, approved codes of practice, housekeeping standards, environmental considerations, on-site briefings, supervisor's instructions, and procedures to comply with legislative and local body requirements relevant to the wood manufacturing sector.

- Assessment information
 All activities and evidence must be in accordance with workplace procedures and accepted industry practice.
- 4 Recommended unit standards for entry: Unit 4548, Laminate straight timber for wood product manufacturing; or Unit 4546, Feed and tail out finger jointer.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of properties of adhesives used in wood product manufacturing.

Performance criteria

- 1.1 The different categories of adhesives and the products they are used for in wood product manufacturing are described.
 - Range categories may include but are not limited to water resistant, moisture resistant, interior.
- 1.2 The chemical structure of key adhesives and how this impact on the adhesives' effectiveness and limitations of use are described.
 - Range key adhesives may include but are not limited to formaldehyde, polyvinyl acetate, urethane.
- 1.3 The properties required of bonds and how these are achieved for products in wood product manufacturing are described.
- 1.4 The factors that influence the effectiveness of adhesives and how these factors are controlled are described.

Outcome 2

Describe storage and handling requirements of adhesives used in wood product manufacturing.

Performance criteria

- 2.1 The identification, classification, signage, and handling requirements of adhesive used in wood product manufacturing are described.
- 2.2 The storage and disposal requirements for various categories of adhesive used in wood product manufacturing, and how these requirements are met for specific adhesives on a specified wood product manufacturing site are described.
 - Range categories may include but are not limited to water resistant, moisture resistant, interior.
- 2.3 Procedures and protective equipment required for the safe handling of adhesive in wood product manufacturing are described.
- 2.4 Emergency procedures and treatment for adhesive spillage on a wood product manufacturing site are described.

Outcome 3

Demonstrate knowledge of adhesive failures in wood product manufacturing.

Performance criteria

- 3.1 Causes of adhesive failure in wood product manufacturing are described.
 - Range evidence of six causes are required.
- 3.2 The physical characteristics that indicate the likely causes of adhesive failure in wood products are described.
- 3.3 Processes for determining adhesive failure are described.
- 3.4 Causes of failure on samples of given products with adhesive failures are described.

Planned review date	31 December 2024

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	18 December 2006	31 December 2015
Review	2	18 April 2013	31 December 2015
Rollover	3	16 April 2015	31 December 2018
Reinstatement	4	22 October 2020	N/A

Consent and Moderation Requirements (CMR) reference	0013
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This CMR can be accessed at http://www.nzqa.govt.nz/framework/search/index.do.

Comments on this unit standard

Please contact Competenz <u>qualifications@competenz.org.nz</u> if you wish to suggest changes to the content of this unit standard.