

Title	Demonstrate knowledge of pumps and valves used in wood manufacturing industries		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to, in wood manufacturing industries, demonstrate knowledge of: pumps, pump components, and operator checks on operating pumps used; and types of valves used.
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Classification	Wood Manufacturing - Generic Skills > Wood Manufacturing Foundation Skills
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Available grade	Achieved
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Guidance Information

1 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.

Wood manufacturing industries include pulp and paper manufacturing, wood panels manufacture, solid wood processing, and wood product manufacturing.

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.

2 Assessment information

All activities and evidence must meet workplace procedures and accepted industry practice.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of pumps, pump components, and operator checks on operating pumps used in wood manufacturing industries.

Performance criteria

- 1.1 Pumps used in the industry are identified and their principles of operation are described.
- Range gear, centrifugal, multistage, submersible, reciprocating, diaphragm.
- 1.2 Components of pumps used in the industry are identified.
- Range includes but is not limited to – casing, inlet, outlet, impellor, rotor, seals.
- 1.3 Checks that operators can conduct in monitoring operating pumps are explained in terms of sounds, visual inspection of pump for leaks, vibration, and temperature changes of the casing.

Outcome 2

Demonstrate knowledge of the types of valves used in wood manufacturing industries.

Performance criteria

- 2.1 Valves used in the industry are identified and described in terms of their principles of operation.
- Range includes but is not limited to – ball, butterfly, gate, globe, diaphragm, check, relief, safety.
- 2.2 Components of valves used in the industry are identified.
- Range includes but is not limited to - hand wheel, stem, packing, body, bonnet, disc, gate, ball, diaphragm, seat.
- 2.3 Checks that operators can conduct in monitoring valves are explained in terms of valve position, leakage from valve stem and flange, and lubrication requirements.

Planned review date	31 December 2024
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	23 November 1995	31 December 2020
Revision	2	27 January 1997	31 December 2020
Review	3	25 February 1999	31 December 2020
Review	4	30 November 2000	31 December 2020
Review	5	18 December 2006	N/A
Review	6	28 May 2020	N/A

Consent and Moderation Requirements (CMR) reference

0013

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

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