

Title	Re-pulp dry furnish		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to: demonstrate knowledge of re-pulping dry furnish; operate a re-pulper; and monitor and control the performance of a re-pulper.
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Classification	Wood Fibre Manufacturing > Paper Making
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Available grade	Achieved
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Guidance Information

1 Legislation and references

Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the:

- Hazardous Substances and New Organisms Act 1996;
- Health and Safety at Work Act 2015;
- Resource Management Act 1991;
- Health and Safety at Work (Major Hazard Facilities) Regulations 2016.

2 Definitions

Dry furnish refers to dried pulp, dry recycled fibre, and paper mill broke.

Operating parameters refers to the boundary conditions in which the operations are carried out in re-pulping dry furnish.

Operating procedures refers to the process(es) that are worked through, e.g. standard operating procedure (SOP) in re-pulping dry furnish.

Worksite documentation refers to organisation policies and procedures that are documented in memo, electronic, or manual format and available in the workplace, and are consistent with manufacturer's requirements. 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, sustainability, on-site briefings, supervisor's instructions, and procedures to comply with legislative and local body requirements relevant to the paper making industry.

3 Assessment information

Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable service information, worksite documentation and legislative requirements. This includes the knowledge and use of suitable tools and equipment.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of re-pulping dry furnish.

Performance criteria

- 1.1 Purpose of re-pulping dry furnish is explained.
- 1.2 Operating principles of re-pulpers are explained.
- Range may include but is not limited to – separation of fibres, rubbish, chemicals.
- 1.3 Operating parameters and capability of re-pulpers are explained.
- Range operating parameters may include but are not limited to – volumes, time in re-pulper, consistency.
- 1.4 Operating components and process controls of re-pulpers are explained.
- Range operating components may include but are not limited to – transport system, pulper, rotor, screen, rubbish removal system.
- 1.5 Hazards associated with re-pulpers are identified and actions to be taken to minimise, or eliminate the hazards are described.
- Range hazards may include but are not limited to – moving plant, lifting, knives, wire, strapping, forklift.
- 1.6 Consequences of non-compliance with worksite operating procedures are described.
- 1.7 Roles and responsibilities of the re-pulper operator are described.

Outcome 2

Operate a re-pulper.

Performance criteria

- 2.1 Safe work practices associated with operating a re-pulper are demonstrated.
- Range practices may include but are not limited to – isolation procedures, lock-outs or tag-outs, emergency stops, machine guarding, wearing appropriate safety equipment.
- 2.2 Re-pulper is checked, set up, started up, operated, and shut down.

2.3 Operating parameters are set and adjusted to enable production requirements to be achieved.

Range operating parameters may include but not limited to – fibre type, fibre weight, water volumes, time in re-pulper; production requirements – consistency, contaminant removal, fibre separation.

2.4 Essential care and housekeeping requirements for the re-pulper are carried out.

Outcome 3

Monitor and control the performance of a re-pulper.

Performance criteria

3.1 Performance of a re-pulper is monitored and parameters are controlled in accordance with operating parameters.

Range control parameters – volumes, time in re-pulper, consistency; product quality – consistency, contaminant removal, fibre separation.

3.2 Operating and equipment faults and malfunctions are identified, and relevant corrective actions are taken.

Range operating faults and malfunctions may include but are not limited to – pump failure, blockages; equipment faults and malfunctions – electrical, mechanical, hydraulic, pneumatic, instrumentation, distributed control system.

3.3 Consistency and contaminant removal of output pulp are monitored to meet specified requirements.

3.4 Production, maintenance, and quality records are completed.

Planned review date	31 December 2028
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	22 February 1995	31 December 2024
Revision	2	27 January 1997	31 December 2024
Review	3	25 February 1999	31 December 2024
Review	4	18 December 2006	31 December 2024
Review	5	24 October 2014	31 December 2025
Review	6	30 November 2023	N/A

Consent and Moderation Requirements (CMR) reference	0173
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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 Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council qualifications@hangaarorau.nz if you wish to suggest changes to the content of this unit standard.