

Title	Disperse coloured material in repulped waste for paper making		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to: demonstrate knowledge of pulp dispersing systems; operate a dispersing unit; and monitor and control the performance of a dispersing unit.
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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 Definition

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 pulp dispersing systems.

Performance criteria

- 1.1 Purpose of dispersing pulp is explained in terms of uniformity of end product, and the removal of previous processing materials.
- 1.2 Dispersing variances are identified and explained.
- Range variances may include but are not limited to – consistency, temperature, worn internal components.
- 1.3 Operating components and process controls of dispersing units are described and their purpose is explained.
- Range stator and rotor plates.
- 1.4 Hazards associated with operating dispersing units 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 parts, electricity, water.
- 1.5 Consequences of non-compliance with worksite operating procedures are described.
- 1.6 Roles and responsibilities of the pulp dispersing systems operator are described.

Outcome 2

Operate a dispersing unit.

Performance criteria

- 2.1 Safe work practices associated with operating a dispersing unit 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 Dispersing unit is 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 – energy input, consistency, throughput.
- 2.4 Essential care and housekeeping requirements are carried out.

Outcome 3

Monitor and control the performance of a dispersing unit.

Performance criteria

3.1 Performance of a dispersing unit is monitored, and parameters are controlled in accordance with operating parameters.

Range control parameters – energy input, consistency, throughput.

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 – abnormal noise, high and low drive motor loads, internal component wear, leaks;
equipment faults and malfunctions may include but are not limited to – electrical, mechanical, hydraulic, pneumatic, instrumentation.

3.3 Volume, colouration, and consistency of output product are monitored to meet specified requirements.

3.4 Production rate is regulated and adjusted to meet downstream operation requirements.

3.5 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.