Title	Store and load dry furnish for re-pulping		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to: demonstrate knowledge of storing and re-pulping dry furnish; store dry furnish; load and maintain a re-pulper conveyor system; and monitor and control the performance of a re-pulper conveyor system.

Classification	Wood Fibre Manufacturing > Paper Making

Available grade	Achieved

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.
     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 storing and re-pulping dry furnish.

Performance criteria

1.1	Purpose of re-pulping dry furnish is explained.

1.2	Reasons for rubbish removal from the yard and separate storage of furnish types are explained.

1.3	Criteria used for the accepting or rejecting of wastepaper furnish are explained.

1.4	Operating principles of re-pulpers are explained in terms of separation of fibres, separation of rubbish, and the use of chemicals to support these operations.

1.5	Operating parameters and capability of re-pulpers are explained.

> Range	may include but is not limited to – weights, volumes, dry furnish mix, time in re-pulper, consistency.

1.6	Operating components and process controls of re-pulpers and their purpose are explained.

> Range	transport system, pulper, rotor, screen.

1.7	Hazards associated with conveyor system and 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 conveyors, lifting, knives, wire and strapping, forklift operations, nips.

1.8	Consequences of non-compliance with worksite operating procedures are described.

1.9	Roles and responsibilities of the furnish loading operator are described.

Outcome 2

Store dry furnish.

Performance criteria

2.1	Dry furnish is inspected, accepted, and off-loaded.

2.2	Dry furnish is placed in correct storage location.

2.3	Dry furnish is handled and stored to ensure optimum condition is maintained and stacks meet legislative requirements.

2.4   Dry furnish is rotated.

2.5   Records are completed.

Outcome 3

Load and maintain a re-pulper conveyor system.

Performance criteria

3.1   Safe work practices associated with loading dry furnish into a re-pulper are identified and used.

     Range   practices may include but are not limited to – isolation procedures, lock-outs or tag outs, emergency stops, machine guarding, wearing appropriate safety equipment.

3.2   Dry furnish is assembled and prepared for re-pulping.

     Range   preparation may include but is not limited to – unwrapping dry furnish; disposal of wire, wrapping and strapping materials; quality inspection; testing of dry furnish.

3.3   Dry furnish is loaded onto the re-pulper conveyor in accordance with product specification requirements.

3.4   Essential care and housekeeping requirements for the re-pulper conveyor system are carried out.

Outcome 4

Monitor and control the performance of a re-pulper conveyor system.

Performance criteria

4.1   Re-pulper conveyor system is monitored and parameters are controlled for product quality in accordance with operating parameters.

     Range   control parameters – dry furnish mix, feed speed, contaminant levels, ratio of fibre types;
           product quality – correct ratio of fibre types.

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

     Range   equipment faults and malfunctions may include but not limited to – electrical, mechanical, instrumentation, distributed control system.

4.3   Output furnish product quality is monitored to meet specified requirements.

4.4   Production rate is regulated in accordance with process requirements.

4.5   Production, maintenance, and quality records are completed.

Planned review date	31 December 2028

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	18 December 2006	31 December 2024
Review	2	24 October 2014	31 December 2025
Review	3	30 November 2023	N/A

Consent and Moderation Requirements (CMR) reference	0173

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.