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

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

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| **Classification** | Wood Fibre Manufacturing > Paper Making |

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| **Available grade** | Achieved |

**Explanatory notes**

1 Definitions
*Dry furnish* refers to dried pulp, dry recycled fibre, and paper mill broke.
*Worksite documentation* refers to instructions to staff on policy and procedures (including the application of legislation to worksite situations) which are formally documented, and are available for reference at the worksite. Examples are standard operating procedures, specifications, manuals, and manufacturer's information.

2 The following apply to the performance of all outcomes of this unit standard:
- a All work practices must meet recognised codes of practice and documented worksite health and safety and environmental procedures (where these exceed code) for personal, product, and worksite health and safety, and must meet the obligations required under current legislation, including the Health and Safety in Employment Act 1992, the Resource Management Act 1991, and their subsequent amendments.
- b All work practices must meet documented worksite operating procedures. This includes the recording (by electronic or non-electronic means) of activities, events, and decisions.
- c All communications made in relation to this unit standard must be made in accordance with worksite procedures for content, recipient, timing, and method.

## Outcomes and evidence requirements

### Outcome 1

Explain fundamentals of storing and re-pulping dry furnish.

**Evidence requirements**

1.1 Purpose of re-pulping dry furnish is explained in accordance with worksite documentation.

1.2 Reasons for rubbish removal from the yard and separate storage of furnish types are explained in accordance with worksite documentation.

1.3 Criteria used for the accepting or rejecting of waste paper furnish are explained in accordance with worksite documentation.

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 in accordance with worksite documentation.

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 are identified and their purpose is explained in accordance with worksite documentation.

Range transport system, pulper, rotor, screen.

1.7 Hazards associated with conveyor system and re-pulpers are identified and actions to be taken to isolate, minimise, or eliminate the hazard are described in accordance with worksite documentation.

Range hazards may include but are not limited to – moving conveyors, lifting, knives, wire and strapping, forklift operations, nips.

1.8 Consequences of non-conformance with worksite operating procedures are described in accordance with worksite documentation.

1.9 Roles and responsibilities of the furnish loading operator are described in accordance with worksite documentation.

**Outcome 2**

Store dry furnish.

**Evidence requirements**

2.1 Dry furnish is inspected, accepted, and off-loaded in accordance with worksite documentation.

2.2 Dry furnish is placed into correct storage location in accordance with worksite documentation.

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

2.4 Dry furnish is rotated in accordance with worksite documentation.

2.5 Records are completed in accordance with worksite documentation.

**Outcome 3**

Load and maintain a re-pulper conveyor system efficiently.

**Evidence requirements**

3.1 Safe work practices associated with loading dry furnish into a re-pulper are identified and used in accordance with worksite documentation and legislative requirements.

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

3.2 Dry furnish is assembled and prepared for re-pulping in accordance with worksite documentation.

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 and worksite documentation.

3.4 Preventative maintenance and cleaning requirements for the re-pulper conveyor system are carried out in accordance with worksite documentation.

**Outcome 4**

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

**Evidence requirements**

4.1 Monitoring and interpretation of feedback information and the timely adjustment of control parameters enable product quality, efficient plant performance, and process and legislative requirements to be maintained in accordance with worksite documentation.

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 corrective action is taken, in accordance with worksite documentation.

Range equipment faults and malfunctions – electrical, mechanical, instrumentation, distributed control system.

4.3 Output furnish meets the requirements of worksite documentation for product quality.

4.4 Production rate is regulated in accordance with worksite documentation and process requirements.

4.5 Production, maintenance, and quality records are explained and completed in accordance with worksite documentation.

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| **Planned review date** | 31 December 2019 |

**Status information and last date for assessment for superseded versions**

| Process | Version | Date | Last Date for Assessment |
|---|---|---|---|
| Registration | 1 | 18 December 2006 | N/A |
| Review | 2 | 24 October 2014 | N/A |

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| **Consent and Moderation Requirements (CMR) reference** | 0173 |

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

**Please note**
Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

**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.