Title	Recover wood chips and prepare raw material		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to: explain fundamentals of woodchip preparation; recover wood chips; operate a chip washer; and monitor and control the performance of a chip washer. This unit standard is for people who are, or intend to be, employed in the fibreboard and fibre-faced strandboard manufacturing sector of the wood panels manufacturing industry.

Classification	Wood Fibre Manufacturing > Composite Wood Panel Manufacturing

Available grade	Achieved

Explanatory notes

1   This unit standard is intended for work-based assessment. While all evidence requirements must be met, some range statements within this unit standard are indicative and dependent on enterprise and worksite specific equipment, procedures, and practices.

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. They must also 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 of these Acts.
     b   All work practices must meet documented worksite quality management procedures. This includes the recording (by electronic or non-electronic means) of activities, events, and decisions.
     c   All communications must be made in accordance with worksite procedures for content, recipient, timing and method.

3   Definition
     Worksite policies and procedures refer to documented policies, and to documented or other directions provided to staff. These must conform to legislation, and include, but are not limited to, ways of managing health and safety, environmental considerations, quality, and production. Examples include standard operating procedures, company health and safety plans, on-site briefings, and supervisor's instructions.

Outcomes and evidence requirements

Outcome 1

Explain fundamentals of woodchip preparation in accordance with worksite policies and procedures.

Range   transport, screening, washing.

Evidence requirements

1.1   The purpose of screening and washing in the panel manufacturing process is described.

1.2   Operating principles of woodchip preparation equipment are described.

         Range   may include but are not limited to – chip screens, chip wash, scrap separator, pumps, conveyors.

1.3   Processing systems for non-conforming material are explained.

         Range   non-conforming material may include but is not limited to – oversize, undersize, non-wood materials.

1.4   The consequences of non-conformance with worksite operating procedures are described.

Outcome 2

Recover wood chips in accordance with worksite policies and procedures.

Evidence requirements

2.1   Material recovery and preparation systems are operated.

2.2   Systems are monitored during operation.

2.3   Non-conforming materials are removed and processed.

Outcome 3

Operate a chip washer in accordance with worksite policies and procedures.

Evidence requirements

3.1   The chip washer is set up, started up, operated, and shut down.

3.2   Setting and adjustment of operating parameters enables production requirements to be achieved.

Range   operating parameters may include but are not limited to – water levels, chip flow rates, motor loads, effluent disposal;
production requirements may include but are not limited to – product quality, production rate.

3.3   Equipment faults and malfunctions are identified and corrective action is taken.

Range   equipment faults and malfunctions – electrical, mechanical, hydraulic, pneumatic, instrumentation.

Outcome 4

Monitor and control the performance of a chip washer in accordance with worksite policies and procedures.

Evidence requirements

4.1   Monitoring and interpretation of feedback information, and adjustment of control parameters, enable process requirements, plant performance, and product quality to be maintained.

Range   process requirements may include but are not limited to – water usage, effluent levels, environmental restrictions.

4.2   Output product meets the requirements for chip size and contaminant level.

4.3   Production rate is regulated.

4.4   Waste material is processed.

Planned review date	31 December 2016

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 January 1995	31 December 2012
Review	2	24 November 1995	31 December 2012
Revision	3	12 February 1998	31 December 2012
Review	4	25 March 1999	31 December 2012
Review	5	29 March 2005	31 December 2012
Rollover and Revision	6	23 February 2007	31 December 2012
Review	7	15 April 2011	31 December 2012
Review	8	20 October 2011	N/A

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 the Competenz at info@competenz.org.nz if you wish to suggest changes to the content of this unit standard.