

Title	Wash wood chips for further processing		
Level	3	Credits	3

Purpose	People credited with this unit standard are able to: explain fundamentals of chip washing; operate a chip wash system efficiently; and monitor and control the efficient performance of a chip wash system.
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Classification	Wood Handling and Distribution > Wood Preparation
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Available grade	Achieved
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Guidance Information

1 Definitions

Further processing can include pulp making, solid wood processing, and wood panels manufacturing.

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 performance criteria

Outcome 1

Explain fundamentals of chip washing.

Performance criteria

- 1.1 Principle and purpose of chip washing is explained in terms of grit and contaminant removal and reduction of wear on equipment.

1.2 Operating components and process controls of chip wash systems are identified and their purpose is explained in accordance with worksite documentation.

Range may include but is not limited to – transport system, washer, drain system, pumps, scrap metal trap.

1.3 Operating parameters, capability, and capacity of chip wash systems are explained in accordance with worksite documentation.

1.4 Hazards associated with chip wash systems 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 – mechanical movement, electricity, water, heat.

1.5 Roles and responsibilities of the chip wash systems operator are described in accordance with worksite documentation.

Outcome 2

Operate a chip wash system efficiently.

Performance criteria

2.1 Safe work practices associated with chip wash systems 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.

2.2 Chip washer is set up, started up, operated, and shut down efficiently in accordance with worksite documentation.

2.3 Setting and timely adjustment of operating parameters enables production requirements to be achieved in accordance with worksite documentation.

Range operating parameters – water temperature, chip throughput, water flow and recycle;
production requirements – product quality, production rate.

2.4 Preventative maintenance and cleaning requirements are demonstrated in accordance with worksite documentation.

Outcome 3

Monitor and control the efficient performance of a chip wash system.

Performance criteria

3.1 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 may include but is not limited to – water temperature, chip throughput, waterflow.

3.2 Operating and equipment faults and malfunctions are identified, and corrective action is taken, in accordance with worksite documentation.

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

3.3 Output chips meet the requirements of worksite documentation for lack of contaminants.

3.4 Production rate is regulated to match downstream plant demand.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	22 February 1995	31 December 2020
Revision	2	27 January 1997	31 December 2020
Review	3	25 February 1999	31 December 2020
Review	4	18 December 2006	31 December 2020
Review	5	28 May 2020	31 December 2020

Consent and Moderation Requirements (CMR) reference	0013
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.