

Title	Screen wood chips for further processing		
Level	3	Credits	3

Purpose	People credited with this unit standard are able to: demonstrate knowledge of the fundamentals of chip screening; operate a chip screen and rechipper system; and monitor and control the performance of a chip screen 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 Legislation
Health and Safety at Work Act 2015.
Hazardous Substances and New Organisms Act 1996.
Resource Management Act 1991.
- 2 Definitions
Accepted industry practice refers to approved codes of practice and standardised procedures accepted by the wider wood handling and distribution industry as examples of best practice.
Further processing can include pulp making, solid wood manufacturing, and wood panels manufacturing.
Workplace procedures refer to documented policies and procedures set by the organisation carrying out the work, and to documented or other directions provided to staff, and applicable to the tasks being carried out. 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, on-site briefings, supervisor’s instructions, and procedures to comply with legislative and local body requirements relevant to the wood handling and distribution sector.
- 3 Assessment information
All activities and evidence must meet workplace procedures and accepted industry practice.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the fundamentals of chip screening.

Performance criteria

- 1.1 Purpose of screening wood chips is explained.
- 1.2 Principles of operation of chip screens are explained.
- Range separation of slivers and oversize chips; the actions of classifier, slicers, and rechipper; removal of fines from accepts.
- 1.3 Operating capacity, and capability of the chip screens are explained.
- Range operating capability may include but is not limited to – fines removal, oversize removal, chip throughput, screen condition.
- 1.4 Hazards associated with chip screening are identified and actions to be taken to manage the hazard are described.
- Range hazards may include but are not limited to – dust, noise, mechanical movement, electricity.
- 1.5 Consequences of non-conformance with quality standards are described.
- 1.6 Roles and responsibilities of the chip screens operator are described.

Outcome 2

Operate a chip screen and rechipper system.

Range chip screen system may include but is not limited to– conveyors, chip screens, metal detectors, rechippers, weighing equipment.

Performance criteria

- 2.1 Safe work practices associated with chip screen and rechipper systems are identified and applied.
- Range practices may include but are not limited to – isolation procedures, lock outs, emergency stops, machine guarding, wearing appropriate safety equipment.
- 2.2 Chip screen system 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 – settings and knife sharpness, fines removal, chip throughput, screen condition.
- 2.4 Knives are sharpened.
- Range slicer and/or rechipper knives.

- 2.5 Preventative maintenance and cleaning requirements are explained and applied.

Outcome 3

Monitor and control the performance of a chip screen system.

Performance criteria

- 3.1 Product quality, plant performance, process, and legislative requirements are maintained by monitoring and interpreting feedback information and adjusting control parameters.
- 3.2 Incoming chip supply is maintained to match downstream production requirements.
- 3.3 Operating and equipment faults and malfunctions are identified, and corrective action is taken.
- Range operating faults and malfunctions may include but are not limited to – gearboxes, knives, bucket elevators, chips and fines conveyors, magnets.
- 3.4 Output chips are checked to conform with the requirements for separation of slivers and fines, and size and conformity of accepts.

Planned review date	31 December 2024
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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 2020
Revision	2	27 January 1997	31 December 2020
Review	3	25 February 1999	31 December 2020
Review	4	18 December 2006	N/A
Review	5	28 May 2020	N/A

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>.

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.