

Title	Operate a debarker		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to: demonstrate knowledge of the operating principles of debarkers; operate a debarker; and monitor the performance of a debarker.
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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.
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.
Corrective action refers to actions such as communication to management, communication to on-site technical person, communication to off-site technical support person, cleaning, communication with maintenance staff, recalibration, or changes made to the operating system in accordance with workplace procedures.
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.
- 4 Recommended unit standards for entry:
Unit 159, *Demonstrate knowledge of environmental issues in wood manufacturing industries*; and Unit 160, *Demonstrate knowledge of the principles of sawmilling*.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of the operating principles of debarkers.

Performance criteria

- 1.1 Types and role of debarkers in the log conversion process are described.
- 1.2 Operating parameters and capability of debarkers used on the site are identified and described.
- Range minimum and maximum dimensions of input material, log characteristics.
- 1.3 Operating components of debarkers are identified.
- Range log conveyance system, bark removal system, photoelectric cells (PEC).
- 1.4 Safety features of debarkers are identified, and their roles are explained.
- Range lock-out switch or system, stop buttons, guards.
- 1.5 Purpose, function and relationships of automated system components used to operate the debarking process are described.
- Range components may include but are not limited to – photo cells, encoders, proximity switches.
- 1.6 Safety procedures used to isolate automated system components are described.

Outcome 2

Operate a debarker.

Performance criteria

- 2.1 Hazards associated with operating a debarker are identified and actions to be taken to manage the hazard are described.
- Range may include but is not limited to – moving equipment, mobile plant, oil leaks, dust.

- 2.2 Safe work practices associated with operating a debarker are identified and applied.

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

Range start, stop, shut down, safety, maintenance.
- 2.4 Production rate is maintained in accordance with worksite production and quality requirements.
- 2.5 Debarker and work area are left clean and tidy, and ready for next use.

Outcome 3

Monitor the performance of a debarker.

Performance criteria

- 3.1 Impact of poor debarking on downstream operations and product output and quality is described.
- 3.2 Impact of species on debarker performance and output quality is described.
- 3.3 Amount of bark remaining on peeled logs is assessed against worksite documentation, and logs are redirected for further processing if necessary.
- 3.4 Equipment faults and malfunctions are identified, and corrective action is taken.

Range faults – electrical, mechanical, hydraulic.
- 3.5 Operating faults that affect debarker output and quality are identified and corrective action is taken.
- 3.6 Preventative maintenance and cleaning schedule for the debarker is explained and actioned.

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	2 July 1993	31 December 2020
Review	2	24 October 1996	31 December 2020
Review	3	10 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

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.