

Title	Break out for ground-based forest harvesting operations		
Level	3	Credits	10

Purpose	<p>This unit standard is intended for people employed in a forestry operation.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of health and safety requirements for breaking out in a ground-based harvesting operation; prepare for breaking out in a ground-based harvesting operation; and break out stems in a ground-based harvesting operation.</p>
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Classification	Forestry > Forestry - Breaking Out
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Available grade	Achieved
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Guidance Information

- 1 Legislation relevant to this unit standard includes the Health and Safety at Work (HSW) Act 2015; the Resource Management (National Environmental Standards for Plantation Forestry) Amendment Regulations 2018; and any subsequent amendments.
- 2 References
Approved Code of Practice (ACOP) for Safety and Health in Forestry Operations, December 2012, available from <https://worksafe.govt.nz/>.
 New Zealand Forest Owners Association, *Forest Practice Guides* (2019), and any subsequent amendments, available from <https://www.nzfoa.org.nz>.
- 3 Definitions
Accepted industry practice refers to approved codes of practice and standardised procedures accepted by the wider forestry industry as examples of best practice.
Job prescription refers to any written instructions for the operation and may include maps, harvest plans or cut plans.
PPE refers to personal protective equipment and may include but is not limited to high-visibility, protective clothing, gloves, face and eye protection, safety helmet, footwear, hearing protection, and safety devices.
Worksite procedures refer to documented procedures used by the organisation carrying out the work and applicable to the tasks being carried out. They may include but are not limited to – standard operating procedures, site safety procedures, equipment operating procedures, quality assurance procedures, housekeeping standards, procedures to comply with legislative and local body requirements.

4 Assessment information

This unit standard must be assessed on-job.

All activities and evidence must meet worksite procedures and accepted industry practice.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of health and safety requirements for breaking out in a ground-based harvesting operation.

Performance criteria

- 1.1 PPE is maintained and worn.
- 1.2 The hazards and associated risks specific to breaking out are identified and controlled.
- 1.3 The reason for on-going hazard and risk identification is explained.
- 1.4 Factors that may change hazards or introduce new hazards or risks are described.

Range weather, terrain, hindrance.

Outcome 2

Prepare for breaking out in a ground-based harvesting operation.

Performance criteria

- 2.1 Equipment for breaking out is prepared for use.
- 2.2 Production requirements are explained.
- 2.3 Preparation of the breaking out plan is described.

Range may include but is not limited to – meeting held, hazards identified, zones identified, communication, job prescription requirements.

Outcome 3

Break out stems in a ground-based harvesting operation.

Performance criteria

- 3.1 Quality and specific job requirements are identified in accordance with the job prescription.
- 3.2 Workface is planned in accordance with the breaking out plan.
- 3.3 Drags are planned successively to clear access to the next drag.

- 3.4 Drag is selected according to position, location, and size.
Range safety, within line of pull, avoiding tail locking, minimising breakage, top trees first, capacity of machine and system, optimal payload, balance load, consistent drag size.
- 3.5 Machine is directed into position for drag.
- 3.6 Winch rope is managed to allow hook on to the drag.
- 3.7 Payload for machine, system, terrain, and stem size are selected and stopped.
- 3.8 Drag is selected to avoid stops on acute angles to machine or fairlead.
- 3.9 Stops are hooked and unhooked.
- 3.10 Stops are set to avoid accidental unhooking in terms of a half roll to lock stop.
- 3.11 Stops are set to minimise stem breakage or damage to the rigging.
- 3.12 Communication is maintained between the breaker-out and the machine operator when hooking on the drag.
- 3.13 Break-out is conducted by directing the machine operator.
- 3.14 Stops are repositioned on tree lengths which have been long stopped.
- 3.15 A Safe retreat position is maintained during break-out and extraction of the drag.
- 3.16 Salvage requirements are met in accordance with the job prescription and worksite procedures.

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	8 November 1996	31 December 2012
Revision	2	19 June 1998	31 December 2012
Review	3	5 December 2000	31 December 2012
Review	4	22 May 2008	31 December 2016
Review	5	19 March 2015	31 December 2017
Review	6	10 December 2015	N/A
Review	7	25 June 2020	N/A

Consent and Moderation Requirements (CMR) reference	0173
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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.