

<b>Title</b>	<b>Break out for ground-based forest harvesting operations</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	<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>
----------------	--

<b>Classification</b>	Forestry > Forestry - Breaking Out
-----------------------	------------------------------------

<b>Available grade</b>	Achieved
------------------------	----------

### 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 stropped.
- 3.8 Drag is selected to avoid strops on acute angles to machine or fairlead.
- 3.9 Strops are hooked and unhooked.
- 3.10 Strops are set to avoid accidental unhooking in terms of a half roll to lock strop.
- 3.11 Strops 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 Strops are repositioned on tree lengths which have been long stropped.
- 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.

<b>Planned review date</b>	31 December 2028
----------------------------	------------------

#### 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

Process	Version	Date	Last Date for Assessment
Review	7	25 June 2020	N/A
Rollover	8	26 April 2024	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0173
--	------

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

---

### Comments on this unit standard

Please contact Muka Tangata - People, Food and Fibre Workforce Development Council [qualifications@mukatangata.nz](mailto:qualifications@mukatangata.nz) if you wish to suggest changes to the content of this unit standard.