

<b>Title</b>	<b>Coordinate breaking-out for a cable harvesting operation</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>15</b>

<b>Purpose</b>	People credited with this unit standard are able to: demonstrate knowledge of planning requirements for breaking-out operations; maintain rigging equipment for a cable harvesting operation; coordinate the breaking-out process in a cable harvesting operation; plan and carry out a lineshift; and plan and carry out line retrieval.
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<b>Classification</b>	Forestry > Forestry - Breaking Out
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<b>Available grade</b>	Achieved
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<b>Prerequisites</b>	Unit 24567, <i>Plan and assist with breaking out, line setup, lineshifts and line retrieval for a cable harvesting operation</i> , or demonstrate equivalent knowledge and skills.
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## Guidance Information

- 1 This unit standard has been designed for learning and assessment on-job.
- 2 Legislation and regulations relevant to this unit standard include but are not limited to:
  - Health and Safety at Work Act 2015;
  - Resource Management (National Environmental Standards for Plantation Forestry) Amendment Regulations 2018;
  - and any subsequent amendments.
- 3 References
 

*Approved Code of Practice (ACOP) for Safety and Health in Forestry Operations*, December 2012, available from <https://worksafe.govt.nz/>.

Forestry Industry Safety Council, *Best Practice Guides*, available from <https://safetree.nz/>.

New Zealand Forest Owners Association, *Forest Practice Guides* (2019), and any subsequent amendments, available from <https://docs.nzfoa.org.nz>.
- 4 Definitions
 

*Accepted industry practice* – 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.

*Line retrieval* is the activity of bringing ropes and rigging (for example tail blocks) back to the hauler at the end of the setting and in preparation for moving the hauler. May also be referred to as winding in the ropes.

*PPE* – personal protective equipment as required for the task in accordance with accepted industry practice and worksite procedures. This may include but is not limited to high-viz, protective clothing, gloves, face and eye protection, safety helmet, approved footwear, chaps, hearing protection, and safety devices.

*Rigging* refers to any of butt rigging, carriage, blocks.

*RT* refers to a radio telephone in which audible communications are established by use of a two way radio transmitter and receiver.

*Strawline* – a light cable used to haul heavier cables during the setup of a cable harvesting operation, and may be wire, or synthetic, or an accepted alternative material.

*Talkie Tooter* – a remote control radio designed for use in harvesting.

*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.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of planning requirements for breaking-out operations.

#### Performance criteria

- 1.1 Describe the responsibilities of the contractor, head breaker-out, yarder operator and landing machine operator in accordance with accepted industry practice and worksite procedures.  
  
Range            risk management, planning, communication, training and safety.
- 1.2 Explain the requirements for determining safe retreat position during breaking-out in accordance with accepted industry practice.
- 1.3 Describe the process for developing the breaking-out plan in accordance with accepted industry practice and worksite procedures.
- 1.4 Communicate the daily breaking-out plan to the breaking-out team in accordance with worksite procedures.

### Outcome 2

Maintain rigging equipment for a cable harvesting operation.

**Performance criteria**

- 2.1 Identify wear on rigging, and demonstrate the process for dealing with rigging wear issues, in accordance with worksite procedures.
- 2.2 Carry out maintenance on rigging in accordance with worksite procedures.
- Range may include – shackles, pins, rigging, wire ropes, strops, carriage, tailholds, blocks.

**Outcome 3**

Coordinate the breaking-out process in a cable harvesting operation.

**Performance criteria**

- 3.1 Carry out breaking-out in accordance with accepted industry practice.
- Range PPE, worker positioning, proximity to felling operations, signalling, hooking and unhooking, rigging positioning, winching, drag composition, safety considerations.
- 3.2 Assess and control the risks specific to the breaking-out process in accordance with accepted industry practice.
- 3.3 Assess and control the risks specific to line setup, line shifts and line retrieval in accordance with accepted industry practice.
- 3.4 Explain the reason for on-going risk management in accordance with accepted industry practice.
- 3.5 Describe factors that may alter risks or introduce new risks in accordance with accepted industry practice.
- Range evidence of three factors is required.
- 3.6 Maintain communication between worksite personnel and the cable yarder machine operator in accordance with worksite procedures.
- Range may include – Talkie Tooters, RTs, face-to-face.
- 3.7 Use an appropriate stropping method to minimise accidental unhooking and stem damage in accordance with the accepted industry practice.
- 3.8 Explain the capabilities of the cable yarding machine being used in accordance with accepted industry practice and manufacturer's requirements.
- Range yarding radius, in and out of lead.
- 3.9 Meet salvage requirements of the forest owner in accordance with the job prescription.

- 3.10 Manage the breaking out team in accordance with the breaking-out plan and worksite procedures.

Range communication, safety, task assignment.

#### Outcome 4

Plan and carry out a lineshift.

##### Performance criteria

- 4.1 Develop a plan for a lineshift in accordance with accepted industry practice.

Range may include – block positioning, anchors.

- 4.2 Set-up and carry out a lineshift in accordance with accepted industry practice.

Range includes – anchor stumps notched and secured, block positioning and attachment;  
may include – mobile tailhold machines, strawline managed and respooled.

- 4.3 Explain methods for securing stumps, and factors affecting the choice of each method, in accordance with accepted industry practice.

Range may include – single stump anchor, wrap and go back, twister, bridal block, ratchet tie back.

- 4.4 Tie a pass chain to pull slack in a wire rope in accordance with accepted industry practice.

#### Outcome 5

Plan and carry out line retrieval.

##### Performance criteria

- 5.1 Develop a plan for line retrieval in accordance with accepted industry practice.

- 5.2 Set up and carry out line retrieval in accordance with accepted industry practice.

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<b>Planned review date</b>	31 December 2028
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	28 January 1995	31 December 2012
Review	2	8 November 1996	31 December 2012
Revision	3	19 June 1998	31 December 2012
Review	4	5 December 2000	31 December 2012
Review	5	22 May 2008	31 December 2012
Review	6	8 December 2011	31 December 2016
Review	7	19 March 2015	31 December 2024
Review	8	23 January 2020	31 December 2024
Revision	9	27 October 2022	N/A
Rollover	10	26 April 2024	N/A

**Consent and Moderation Requirements (CMR) reference**

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.