

<b>Title</b>	<b>Plan and assist with breaking out, line setup, lineshifts and line retrieval for a cable harvesting operation</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	People credited with this unit standard are able to: prepare for breaking out, line setup, lineshifts and line retrieval in a cable harvesting operation; demonstrate alternative stropping methods; break out stems in a cable harvesting operation; and assist in a line setup, lineshift and line retrieval of backline wire ropes and blocks.
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<b>Classification</b>	Forestry > Forestry - Breaking Out
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<b>Available grade</b>	Achieved
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### Guidance Information

- This unit standard has been designed for learning and assessment on-job.
- Legislation and regulations relevant to this unit standard include but is 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.
- 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://www.nzfoa.org.nz>.
- 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 visibility clothing, protective clothing, gloves, face and eye protection, safety helmet, approved footwear, chaps, hearing protection, and safety devices.

*Rigging* refers to butt rigging or carriage.

*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

Prepare for breaking out, line setup, lineshifts and line retrieval in a cable harvesting operation.

#### Performance criteria

- 1.1 Maintain and wear PPE in accordance with accepted industry practice and worksite procedures.
- 1.2 Maintain and use equipment for breaking out in accordance with accepted industry practice and worksite procedures.
- 1.3 Assess and control the risks specific to breaking out in accordance with accepted industry practice.
- 1.4 Assess and control the risks specific to line setup, lineshifts and line retrieval in accordance with accepted industry practice.
- 1.5 Explain the reason for on-going risk management in accordance with accepted industry practice.
- 1.6 Describe factors that may alter risks or introduce new risks in accordance with accepted industry practice.  
  
Range        evidence of three factors is required.
- 1.7 Explain the safe retreat position process in accordance with accepted industry practice.

### Outcome 2

Demonstrate alternative stropping methods.

**Performance criteria**

- 2.1 Describe and demonstrate stropping methods in accordance with accepted industry practice.
- Range may include but is not limited to – double wrap, double strop, figure eight, extension, long strop; evidence of three is required.
- 2.2 Describe and demonstrate stropping techniques that assist stem extraction around obstacles in accordance with accepted industry practice and worksite procedures.

**Outcome 3**

Break out stems in a cable harvesting operation.

**Performance criteria**

- 3.1 Plan workface so successive drags will clear access to next drag in accordance with the accepted industry practice.
- 3.2 Select drags in accordance with accepted industry practice.
- Range breaker-out safety, within line of pull, avoiding tail locking, minimising breakage, top stems first, capacity of machine and system, optimal payload, balanced load, consistent drag size, terrain.
- 3.3 Spot rigging into the best position for drag in accordance with accepted industry practice.
- 3.4 Manage slack to sort and untangle strops in accordance with accepted industry practice.
- Range safe area, swinging strops, wire rope or rigging movement.
- 3.5 Control repositioning of rigging in a safe manner in accordance with accepted industry practice.
- Range correct signals, rope movement predicted, personnel safe.
- 3.6 Strop stems in accordance with accepted industry practice.
- Range ropes stationery, stropped to butt end where possible, near as practicable to end of log, angles to carriage or fairlead, stropping technique.

- 3.7 Control extraction of drag until the machine operator takes responsibility in accordance with accepted industry practice.

Range timing of signals, visibility of drag, obstacles, environmental constraints, communication.

- 3.8 Clear cutover to meet the salvage requirements of the job prescription.

- 3.9 Locate breaker out in a safe position during outhaul and inhaul as per the safe retreat process in accordance with accepted industry practice and worksite procedures.

#### Outcome 4

Assist in a line setup, lineshift and line retrieval of backline wire ropes and blocks.

#### Performance criteria

- 4.1 Describe line setup, lineshifts and line retrieval of backline wire ropes and explain the responsibilities of each crew member in accordance with accepted industry practice.
- 4.2 Notch stumps, and position and secure blocks in accordance with accepted industry practice.
- 4.3 Assist in a line setup, lineshift and line retrieval of backline wire ropes and blocks in accordance with accepted industry practice.

<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	22 May 2008	31 December 2012
Review	2	8 December 2011	31 December 2016
Review	3	19 March 2015	31 December 2024
Review	4	23 January 2020	31 December 2024
Revision	5	27 October 2022	N/A
Rollover	6	26 April 2024	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0173
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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**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.