

Title	Carry out spotter's duties for a cable harvesting grapple operation		
Level	4	Credits	12

Purpose	<p>This unit standard is intended for people employed in spotter roles in a cable harvesting grapple operation.</p> <p>People credited with this unit standard are able to: maintain rigging equipment for a cable harvesting grapple operation; coordinate the spotting process in a cable harvesting grapple operation; and plan and carry out a backline shift.</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 – 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 – 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 mechanised logging grapple, wire ropes, shackles and blocks.
RT refers to a radio telephone in which audible communications are established by use of a two way radio transmitter and receiver.
Strawline refers to 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 refers to 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.

Outcomes and performance criteria

Outcome 1

Maintain rigging equipment for a cable harvesting grapple operation.

Performance criteria

- 1.1 Wear on rigging is identified and probable causes are described in accordance with accepted industry practice and worksite procedures.
- 1.2 The process for dealing with identified rigging wear issues is described in accordance with worksite procedures.
- 1.3 Maintenance on rigging is carried out in accordance with accepted industry practice and worksite procedures.
 - Range shackles, pins, blocks, wire ropes, block strops, mechanised logging grapples, closing lines, opening lines.

Outcome 2

Coordinate the spotting process in a cable harvesting grapple operation.

Performance criteria

- 2.1 The responsibilities of the spotter are described in accordance with worksite procedures.
 - Range planning, management, communication, training and safety.
- 2.2 The safe retreat position and procedures for the operation are identified and complied with in accordance with accepted industry practice.
- 2.3 Spotting is carried out in accordance with accepted industry practice.
 - Range PPE, worker positioning, proximity to felling operations, signalling, grapple positioning, winching, drag composition, safety considerations.
- 2.4 Spotting hazards are identified and managed in accordance with accepted industry practice.
 - Range evidence of five hazards is required.

- 2.5 Communication between worksite personnel and the machine operator is maintained in accordance with worksite procedures.
- 2.6 Job prescription is used to identify quality and specific job requirements.
- 2.7 Worksite is planned so successive drags will clear access to the next drag in accordance with accepted industry practice.
- 2.8 Drag is selected in accordance with worksite procedures.
- Range spotter safety, within line of pull, avoiding tail locking, minimising breakage, top stems first, capacity of cable harvesting machine and system, optimal payload, balanced load, consistent drag size, terrain, minimising stem damage.
- 2.9 Repositioning of mechanised logging grapple is controlled in a safe manner.
- Range in a safe manner includes – using correct signals, predicting wire rope movement, ensuring personnel are safe.
- 2.10 Stems are grappled in accordance with accepted industry practice.
- Range grappled at butt end where possible, near as practicable to end of stem.
- 2.11 Extraction of drag is controlled until the machine operator takes responsibility in accordance with accepted industry practice.
- Range move clear, visibility of drag, obstacles, environmental constraints, communication.
- 2.12 Salvage requirements of the forest owner are satisfied in accordance with the job prescription.

Outcome 3

Plan and carry out a backline shift.

Performance criteria

- 3.1 The plan for a backline shift is developed in accordance with accepted industry practice.
- Range may include – block positioning, anchors.

- 3.2 The backline shift is set-up and carried out 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.

- 3.3 Methods for securing stumps, and factors affecting the choice of each method, are explained in accordance with accepted industry practice.

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

- 3.4 A pass chain is tied to pull slack in a wire rope in accordance with accepted industry practice.

Planned review date	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	8 December 2011	31 December 2017
Review	2	10 December 2015	N/A
Review	3	23 January 2020	N/A
Rollover	4	26 April 2024	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 Muka Tangata - People, Food and Fibre Workforce Development Council qualifications@mukatangata.nz if you wish to suggest changes to the content of this unit standard.