

Title	Demonstrate knowledge of ground based log extraction		
Level	3	Credits	5

Purpose	<p>This unit standard is intended for people employed in a ground based harvesting role in a forestry operation.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of ground based log extraction; explain communication requirements for ground based extraction operations; and explain ground based extraction system currently in 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, Resource Management Act 1991; the Resource Management (National Environmental Standards for Plantation Forestry) Amendment Regulations 2018; and the Heritage New Zealand Pouhere Taonga Act 2014, and any subsequent amendments.
- 2 References
New Zealand Forest Owners Association, *Forest Practice Guides* (2019), and any subsequent amendments, available from <http://www.nzfoa.org.nz>.
Approved Code of Practice (ACOP) for Safety and Health in Forestry Operations, December 2012, available from <http://www.worksafe.govt.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.
RT indicates a radio telephone in which audible communications are established by use of a two-way radio transmitter and receiver.
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 evidence must meet worksite procedures and accepted industry practice.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of ground based log extraction.

Performance criteria

- 1.1 Terms commonly used in ground based log extraction are described.
- Range arch, bight, bind, breaker out, bridle stopping, butt, choker, drag, extraction cycle, fairlead, ferrule, head (of a tree), sprag, strop, winch rope, double stopping, pre-stopping, choker setting, extraction direction, extraction trail or route.
- 1.2 Objectives of ground based log extraction are explained.
- Range production, safety, environment, cost.
- 1.3 The hazards and associated risks specific to ground based log extraction are described.
- Range includes but is not limited to – movement of machinery, movement of logs and tree lengths, underfoot conditions, slope, wire rope handling, lack of communication, soil types and stability, bights in wire ropes.
- 1.4 Methods of ground based extraction and factors influencing the use of each are described.
- Range methods – skidder, tractor, forwarder.
- 1.5 Planning requirements for extraction of stems is explained.
- Range clear of other operations, room to manoeuvre, resource management considerations, safety signage, planned routes, drag makeup, machine capacity, extraction distance, operational plans.

Outcome 2

Explain communication requirements for ground based extraction operations.

Performance criteria

- 2.1 Types of communication systems suitable for ground based extraction operations are described.
- Range RTs, hand signals.
- 2.2 Requirements for signals used in ground based extraction operations are explained.

Outcome 3

Explain ground based extraction system currently in operation.

Performance criteria

3.1 The ground based extraction operation is explained.

Range terrain, crew size and skills, machinery and equipment type, machinery capabilities, communication, environmental, production, piece size.

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	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
Revision	6	16 July 2010	31 December 2016
Review	7	19 March 2015	N/A
Review	8	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.