

Title	Demonstrate knowledge of, and use a computer controlled mechanised harvesting machine in a forest harvesting operation		
Level	4	Credits	5

Purpose	<p>This unit standard is intended for people employed as operators of mechanised harvesting and processing machines fitted with a computerised log making system.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of mechanised harvesting machine computer system; access information from a mechanised harvesting machine computer system; and use a mechanised harvesting machine computer system in a production situation.</p>
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Classification	Forestry > Forest Mechanised Harvesting
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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 Definition
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

Demonstrate knowledge of mechanised harvesting machine computer system.

Performance criteria

- 1.1 Components of a computer system for a mechanised harvesting machine are described.
- Range may include but is not limited to – operator screen, power supply, function selector, control handles, cab module, loom, head module(s).
- 1.2 Functions controlled by the computer system are located using the control menu, and their purpose and use is described and demonstrated in terms of using the system to adjust operations.
- Range may include but is not limited to – length and diameter measurement, pre-programmed priority cuts, brake distance, brake speed, soft clamp pressures, delimb arm pressure settings, harvester up speed, find end function, function sequences, override functions, calibration.
- 1.3 Start-up and shut-down procedures for a mechanised harvesting computer operating system are demonstrated in accordance with manufacturer's recommendations and worksite procedures.

Outcome 2

Access information from a mechanised harvesting machine computer system.

Performance criteria

- 2.1 Production records are accessed in accordance with manufacturer's recommendations and worksite procedures.
- 2.2 Operational data is accessed in accordance with manufacturer's recommendations and worksite procedures.

Outcome 3

Use a mechanised harvesting machine computer system in a production situation.

Performance criteria

- 3.1 Updates to the cut plan are entered in the computer system in accordance with manufacturer's recommendations.
- 3.2 Diameter and length measuring functions are calibrated in accordance with manufacturer's recommendations.

3.3 Harvester head settings are adjusted in accordance with manufacturer's recommendations.

Range may include but is not limited to – drive roller speed and pressure, delimb arm pressure, soft clamp pressures, paint marking system; evidence of five adjustments is required.

3.4 Computer controlled harvesting machine is operated to meet forest owner requirements in accordance with worksite procedures.

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	22 May 2008	31 December 2017
Revision	2	16 July 2010	31 December 2017
Review	3	10 December 2015	N/A
Review	4	26 March 2020	N/A
Rollover	5	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.