Title	Carry out quality control of logs on a landing		
Level	3	Credits	10

Purpose	This unit standard is intended for people employed in a quality control role in a forest harvesting operation. The quality control role is one of assisting in log making around the landing.
	People credited with this unit standard are able to: demonstrate knowledge of quality control of logs on a landing; demonstrate knowledge of preparing for quality control logs on a landing; and carry out quality control of logs on a landing.

Classification	Forestry > Forest Landing Operations

Available grade	Achieved

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 refers to approved codes of practice and standardised procedures accepted by the wider forestry industry as examples of best practice.
Cutting instruction refers to a list of log grades to be cut showing priorities, lengths, diameters, defects not allowed, etc. This is used by the log maker to optimise log value recovered from a stem.
Log specification manual refers to a book produced by the forest owner or manager detailing their specific log grades, including all associated log attributes and defects.
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 activities and evidence must meet worksite procedures and accepted industry practice.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of quality control of logs on a landing.

Performance criteria

1.1	The purpose of carrying out quality control of logs on a landing is explained.

1.2	Three key outcomes of logs not meeting specification are explained.

1.3	Log stacking requirements for the operation are described in accordance with the log specification manual or cutting instruction.

	Range	export logs, domestic logs, pulp logs.

1.4	Log branding requirements for the operation are described in accordance with the log specification manual or cutting instruction.

	Range	export logs, domestic logs, pulp logs.

1.5	Two procedures for dealing with out of specification logs are described.

Outcome 2

Demonstrate knowledge of preparing for quality control logs on a landing.

Performance criteria

2.1	The hazards and associated risks specific to landing operations are identified and control measures are explained.

	Range	may include but is not limited to – movement of logs, movement of machines, tripping or slipping, proximity of workers, ropes, chainsaw use, weather;
		evidence of five landing hazards is required.

2.2	The reason for on-going hazard and risk identification is explained.

2.3	Factors that may change hazards or introduce new hazards or risks are described.

	Range	weather, change of location, change of landing layout.

2.4	The process for ensuring quality control tools are performing accurate measurements is explained.

2.5   The process of calibrating quality control tools used is demonstrated.

           Range   loggers tape, small end diameter (SED) tape, length pole,
                        callipers.

2.6   Documentation required to carry out quality control operation is identified.

           Range   may include but is not limited to – log specification manual, cutting
                        instruction, cut plan.

2.7   Key information found on a cutting instruction that impact in terms of quality
           control is listed.

2.8   Communication requirements for changes to cutting instructions are explained.

Outcome 3

Carry out quality control of logs on a landing.

Performance criteria

3.1   A minimum of 100 logs are quality checked in accordance with the cutting
           instructions.

3.2   Any out of specification logs are regraded in accordance with cutting instruction.

3.3   Log attributes are identified and accurately measured in accordance with log
           specification manual.

           Range   log attributes may include – knots, knot size, draw wood, diameter,
                        length, splits, shatter, slabbing, machine or saw damage, nodal
                        swelling, out of round, off centre pith, spike knots, sweep, wobble,
                        fluting;
                        evidence of ten log attributes is required.

3.4   Log ends are branded in accordance with the cutting instruction and log
           specification manual.

3.5   The process for identifying and removing reject logs in log stacks is explained
           and demonstrated.

Planned review date	31 December 2028

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	22 May 2009	31 December 2012
Revision	2	16 July 2010	31 December 2016
Review	3	19 March 2015	N/A
Review	4	25 June 2020	N/A
Rollover	5	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 if you wish to suggest changes to the content of this unit standard.