

National Certificate in Forest Operations (Level 3) with strands in Establishment, Pruning, Thinning to Waste (Small Trees), Thinning to Waste (Large Trees), Tree Felling - Basic Techniques, Thinning for Extraction, Breaking Out for Ground Based Harvesting, Breaking Out for Cable Harvesting, Landing Operations, and Mensuration

Level 3

Credits 49-98

This qualification has been **reviewed**. The last date to meet the requirements is 31 December 2018.

Transition Arrangements

This qualification has been reviewed and replaced by the New Zealand Certificate in Forestry Operations (Level 3) with strands in Chemical Handling, Mensuration, Pruning, and Thin to Waste [Ref: 2334]; and the New Zealand Certificate in Forest Harvesting Operations (Level 3) with strands in Basic Machine Operation, Tree Felling, Breaking Out - Cable, Breaking Out - Ground Based, Manual Processing, Log Scaling, Poleman, Production Thinning, and Quality Control [Ref: 2326].

Version 3 was republished in May 2016 to incorporate a replacement unit standard. For the purposes of this qualification, people who have gained credit for the replacement unit standard are exempt from the requirement to gain credit for the existing unit standard.

Credit for	Exempt from
28560	17766

Version 3 of this qualification was republished in September 2015 to extend the last date of enrolment into programmes leading to this qualification from 31 December 2015 to 31 December 2017 and the last date for assessment extended from 31 December 2017 to 31 December 2018.

People currently working towards this national qualification should complete its requirements by 31 December 2018.

New enrolments into programmes leading to this qualification will not be accepted after 31 December 2017.

For detailed information see [Review Summaries](#) on the NZQA website.

NZQF National Qualification Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	August 2008	December 2012
Review	2	January 2010	December 2018
Review	3	January 2015	December 2018
Republication	3	September 2015	December 2018
Republication	3	May 2016	December 2018

Standard Setting Body

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Reviewed

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Credits	49-98

Purpose

This qualification is aimed at candidates with entry level knowledge and skills of a forestry operation. It provides them with the knowledge and skills needed to carry out day to day operational functions within a forest. These operational functions range from forest establishment through to forest harvesting and are carried out by crew members employed in commercial forest operations.

The qualification has credits in common with, and builds on, the National Certificate in Forest Foundation Skills (Level 2) with strands in Establishment, Pruning, Chainsaw Operations, Breaking Out, and Landing Operations [Ref: 1410]. This qualification has two core electives sets. The first contains generic knowledge and skills which are applicable in a variety of forest operations. The second allows candidates to choose from a variety of forest skills which may be considered necessary for some workers, depending on their particular role, and the way a particular operation is set up. The strand structure means candidates can specialise in knowledge and skills pertaining to the role they carry out and the type of operation they are required to work in.

The inclusion of Core Elective 2 provides opportunities for employers and candidates to select standards from other areas of the National Qualifications Framework that meet the specific requirements of the enterprise.

On completion candidates will have a range of well developed skills relating to the operation they are employed in. They will be capable of carrying out their function under general supervision and will be responsible for their own output. Candidates who complete this qualification may continue a career pathway onto the National Certificate in Forest Operations Advanced (Level 4) with strands in Establishment and Silvicultural Operations, Production Tree Felling, Hauler Set-Up, Machine Operations - Hauler, Head Breaker Out - Cable Harvesting, Log Making, Machine Operations - Log Extraction, Machine Operations - Loader, Mechanised Tree Felling, Mechanised Processing, Inventory, and Helicopter Logging [Ref: 1412].

Special Notes

It is recommended that candidates hold the National Certificate in Forest Foundation Skills (Level 2) with strands in Establishment, Pruning, Chainsaw Operations, Breaking Out, and Landing Operations [Ref: 1410], or demonstrate equivalent knowledge and skills before they commence this qualification.

The diagram in Appendix 1 illustrates pathways between Forestry qualifications at Levels 2, 3 and 4.

Credit Range

	Core Elective		Establishment Strand		Pruning Strand	
	E1	E2	C	E	C	E
Level 1 credits	0-1	-	-	-	-	-
Level 2 credits	0-5	0-5	14	0-5	14	-
Level 3 or above credits	20-24	0-5	22	0-5	5	18-42
Minimum totals	25	5	36	5	19	18
Qualification total with strand			71		67	

	Thinning to Waste (Small Trees) Strand	Thinning to Waste (Large Trees) Strand	Tree Felling – Basic Techniques Strand
Level 2 credits	9	9	8
Level 3 or above credits	48	49	38
Minimum totals	57	58	46
Qualification total with strand	87	88	76

	Thinning for Extraction Strand	Breaking Out for Ground Based Harvesting Strand	Breaking Out for Cable Harvesting Strand
Level 2 credits	12	3	8
Level 3 or above credits	56	20	28
Minimum totals	68	23	36
Qualification total with strand	98	53	66

	Landing Operations Strand		Mensuration Strand
	C	E	-
Level 2 credits	15	-	-
Level 3 or above credits	17	8-24	19
Minimum total	40		19
Qualification total with strand	70		49

Requirements for Award of Qualification

Award of NZQF National Qualifications

Credit gained for a standard may be used only once to meet the requirements of this qualification.

Unit standards and achievement standards that are equivalent in outcome are mutually exclusive for the purpose of award. The table of mutually exclusive standards is provided on the New Zealand Qualifications Authority (NZQA) website: <http://www.nzqa.govt.nz/qualifications-standards/standards/standards-exclusion-list/>.

Reviewed standards that continue to recognise the same overall outcome are registered as new versions and retain their identification number (ID). Any version of a standard with the same ID may be used to meet qualification requirements that list the ID and/or that specify the past or current classification of the standard.

Summary of Requirements

- Core Elective 1 – A minimum of 25 credits as specified
- Core Elective 2 – A minimum of 5 credits as specified

One of the following strands is required

- Establishment Strand
- Pruning Strand
- Thinning to Waste (Small Trees) Strand
- Thinning to Waste (Large Trees) Strand
- Tree Felling - Basic Techniques Strand
- Thinning for Extraction Strand
- Breaking Out for Ground Based Harvesting Strand
- Breaking Out for Cable Harvesting Strand
- Landing Operations Strand
- Mensuration Strand

Detailed Requirements

Core Elective 1

A minimum of 25 credits

- Of which a minimum of 20 credits at Level 3 or above

Agriculture, Forestry and Fisheries > Forestry > Forest Foundation Skills

ID	Title	Level	Credit
17769	Demonstrate knowledge of general health, safety, and environmental requirements in forestry	2	6

Agriculture, Forestry and Fisheries > Forestry > Forest Operations

ID	Title	Level	Credit
1221	Explain and interpret job prescriptions for forestry operations	3	4
17772	Demonstrate knowledge of environmental requirements in forestry operations	3	6

ID	Title	Level	Credit
24574	Demonstrate knowledge of, and contribute to, worksite health and safety for commercial forestry operations	3	3
24575	Demonstrate knowledge of factors that affect the quality of commercial forestry operations	3	4
24579	Demonstrate knowledge of incident response in plantation forests	3	5
25788	Demonstrate knowledge of, implement, and audit temporary traffic control on private forest roads	3	6

Agriculture, Forestry and Fisheries > Pest Management > Pest Control

ID	Title	Level	Credit
21563	Demonstrate knowledge of the HSNO Act, and NZS 8409:2004 for the use of agrichemicals	3	5

Health > Health Studies > Core Health

ID	Title	Level	Credit
6400	Manage first aid in emergency situations	3	2
6401	Provide first aid	2	1
6402	Provide resuscitation level 2	1	1

Core Elective 2

A minimum of 5 credits at Level 2 or above
From anywhere on the NQF

Establishment Strand

Meet the requirements of all of the following sets

- Establishment Strand Compulsory
- Establishment Strand Elective

Establishment Strand Compulsory

The following standards are required

Agriculture, Forestry and Fisheries > Forestry > Forest Establishment

ID	Title	Level	Credit
1232	Demonstrate knowledge of forest planting site preparation	2	4
1234	Plant plantation trees	3	8
1236	Demonstrate knowledge of releasing plantation trees and the use of agrichemicals	3	4
1237	Release plantation trees using agrichemicals	3	10

Agriculture, Forestry and Fisheries > Forestry > Forest Foundation Skills

ID	Title	Level	Credit
23000	Demonstrate forestry foundation skills under supervision for plantation forest establishment	2	10

Establishment Strand Elective

A minimum of 5 credits at Level 2 or above

From 1 of the following sets

- Set A
- Set B

Set A

A minimum of 5 credits

Agriculture, Forestry and Fisheries > Forestry > Forest Establishment

ID	Title	Level	Credit
1238	Release plantation trees using hand-tools	3	5

Agriculture, Forestry and Fisheries > Forestry > Forest Health Surveillance

ID	Title	Level	Credit
22131	Demonstrate knowledge of tree health in New Zealand forest plantations	3	5

Set B

From anywhere on the NQF

Pruning Strand

Meet the requirements of all of the following sets

- Pruning Strand Compulsory
- Pruning Strand Elective

Pruning Strand Compulsory

The following standards are required

Agriculture, Forestry and Fisheries > Forestry > Forest Foundation Skills

ID	Title	Level	Credit
22998	Demonstrate forestry foundation skills under supervision for pruning plantation trees	2	10

Agriculture, Forestry and Fisheries > Forestry > Forest Silvicultural Operations

ID	Title	Level	Credit
6951	Demonstrate knowledge of selecting plantation trees	2	4
6952	Select plantation trees for a forest crop	3	5

Pruning Strand Elective

A minimum of 18 credits

Agriculture, Forestry and Fisheries > Forestry > Forest Silvicultural Operations

ID	Title	Level	Credit
1243	Prune plantation trees from the ground	3	10
1245	Prune plantation trees from off the ground	3	12
6972	Prune plantation trees with a chainsaw from off the ground	4	12
6973	Prune plantation trees with a chainsaw from the ground	4	8

Thinning to Waste (Small Trees) Strand

The following standards are required

Agriculture, Forestry and Fisheries > Forestry > Forest Operations

ID	Title	Level	Credit
43	Maintain a chainsaw	3	10
6916	Demonstrate knowledge of the Approved Code of Practice relating to chainsaw use	2	5
23411	Demonstrate basic chainsaw operation in a commercial forestry situation	3	12

Agriculture, Forestry and Fisheries > Forestry > Forest Silvicultural Operations

ID	Title	Level	Credit
1247	Thin plantation trees, under 200mm stump diameter, to waste	3	12
6950	Demonstrate knowledge of thinning plantation trees and equipment used	3	3
6951	Demonstrate knowledge of selecting plantation trees	2	4
6952	Select plantation trees for a forest crop	3	5

Agriculture, Forestry and Fisheries > Forestry > Tree Felling

ID	Title	Level	Credit
17763	Demonstrate knowledge of tree-felling	3	6

Thinning to Waste (Large Trees) Strand

The following standards are required

Agriculture, Forestry and Fisheries > Forestry > Forest Operations

ID	Title	Level	Credit
43	Maintain a chainsaw	3	10

ID	Title	Level	Credit
6916	Demonstrate knowledge of the Approved Code of Practice relating to chainsaw use	2	5
23411	Demonstrate basic chainsaw operation in a commercial forestry situation	3	12

Agriculture, Forestry and Fisheries > Forestry > Forest Silvicultural Operations

ID	Title	Level	Credit
6950	Demonstrate knowledge of thinning plantation trees and equipment used	3	3
6951	Demonstrate knowledge of selecting plantation trees	2	4
17767	Thin plantation trees, over 200mm stump diameter, to waste	4	8

Agriculture, Forestry and Fisheries > Forestry > Tree Felling

ID	Title	Level	Credit
17763	Demonstrate knowledge of tree-felling	3	6
17766	Fell trees safely using a chainsaw	3	10

Tree Felling - Basic Techniques Strand

The following standards are required

Agriculture, Forestry and Fisheries > Forestry > Forest Operations

ID	Title	Level	Credit
43	Maintain a chainsaw	3	10
6916	Demonstrate knowledge of the Approved Code of Practice relating to chainsaw use	2	5
23411	Demonstrate basic chainsaw operation in a commercial forestry situation	3	12

Agriculture, Forestry and Fisheries > Forestry > Forestry Knowledge

ID	Title	Level	Credit
1227	Demonstrate knowledge of plantation forest harvesting	2	3

Agriculture, Forestry and Fisheries > Forestry > Tree Felling

ID	Title	Level	Credit
17763	Demonstrate knowledge of tree-felling	3	6
17766	Fell trees safely using a chainsaw	3	10

Thinning for Extraction Strand

The following standards are required

Agriculture, Forestry and Fisheries > Forestry > Forest Harvesting Operations

ID	Title	Level	Credit
1230	Trim felled trees for extraction in a commercial forest operation	3	6

Agriculture, Forestry and Fisheries > Forestry > Forest Operations

ID	Title	Level	Credit
43	Maintain a chainsaw	3	10
6916	Demonstrate knowledge of the Approved Code of Practice relating to chainsaw use	2	5
23411	Demonstrate basic chainsaw operation in a commercial forestry situation	3	12

Agriculture, Forestry and Fisheries > Forestry > Forest Silvicultural Operations

ID	Title	Level	Credit
6951	Demonstrate knowledge of selecting plantation trees	2	4
6952	Select plantation trees for a forest crop	3	5

Agriculture, Forestry and Fisheries > Forestry > Tree Felling

ID	Title	Level	Credit
17763	Demonstrate knowledge of tree-felling	3	6
17766	Fell trees safely using a chainsaw	3	10
25952	Thin plantation trees for extraction	4	10

Breaking Out for Ground Based Harvesting Strand

The following standards are required

Agriculture, Forestry and Fisheries > Forestry > Forestry - Breaking Out

ID	Title	Level	Credit
1231	Prepare wire ropes for harvesting operations	4	10
1256	Demonstrate knowledge of ground based log extraction	3	4
6939	Break out for ground based forest harvesting operations	3	6

Agriculture, Forestry and Fisheries > Forestry > Forestry Knowledge

ID	Title	Level	Credit
1227	Demonstrate knowledge of plantation forest harvesting	2	3

Breaking Out for Cable Harvesting Strand

The following standards are required

Agriculture, Forestry and Fisheries > Forestry > Forest Harvesting Operations

ID	Title	Level	Credit
6920	Demonstrate knowledge of cable harvesting	3	8

Agriculture, Forestry and Fisheries > Forestry > Forest Operations

ID	Title	Level	Credit
6916	Demonstrate knowledge of the Approved Code of Practice relating to chainsaw use	2	5
23411	Demonstrate basic chainsaw operation in a commercial forestry situation	3	12

Agriculture, Forestry and Fisheries > Forestry > Forestry - Breaking Out

ID	Title	Level	Credit
24567	Break out for cable harvesting operations	3	8

Agriculture, Forestry and Fisheries > Forestry > Forestry Knowledge

ID	Title	Level	Credit
1227	Demonstrate knowledge of plantation forest harvesting	2	3

Landing Operations Strand

Meet the requirements of all of the following sets

- Landing Operations Strand Compulsory
- Landing Operations Strand Elective

Landing Operations Strand Compulsory

The following standards are required

Agriculture, Forestry and Fisheries > Forestry > Forest Foundation Skills

ID	Title	Level	Credit
22999	Demonstrate forestry foundation skills under supervision for landing operations	2	10

Agriculture, Forestry and Fisheries > Forestry > Forest Landing Operations

ID	Title	Level	Credit
1252	Demonstrate knowledge of log making	3	5

Agriculture, Forestry and Fisheries > Forestry > Forest Operations

ID	Title	Level	Credit
6916	Demonstrate knowledge of the Approved Code of Practice relating to chainsaw use	2	5

ID	Title	Level	Credit
23411	Demonstrate basic chainsaw operation in a commercial forestry situation	3	12

Landing Operations Strand Elective

A minimum of 8 credits

Agriculture, Forestry and Fisheries > Forestry > Forest Harvesting Operations

ID	Title	Level	Credit
22132	Carry out the functions of the poleman on a cable harvesting landing	3	8

Agriculture, Forestry and Fisheries > Forestry > Forest Landing Operations

ID	Title	Level	Credit
6924	Process tree stems on a landing	3	8
25787	Carry out quality control of logs on a landing	3	8

Mensuration Strand

The following standards are required

Agriculture, Forestry and Fisheries > Forestry > Forest Mensuration

ID	Title	Level	Credit
1222	Establish and measure sample plots for forest operations	4	6
17770	Demonstrate knowledge of log grades and log scaling methods	3	4

Agriculture, Forestry and Fisheries > Forestry > Forest Operations

ID	Title	Level	Credit
25804	Navigate in a plantation forest	3	5

Agriculture, Forestry and Fisheries > Forestry > Forest Operations Advanced

ID	Title	Level	Credit
1224	Use prescription maps for forestry operations	4	4

Transition Arrangements

Version 2

Version 2 of this qualification replaced version 1 of the National Certificate in Forest Operations (Level 3) with strands in Establishment, Pruning, Thinning to Waste (Small Trees), Tree Felling - Basic Techniques, Breaking Out for Ground Based Harvesting, Breaking Out for Cable Harvesting, and Landing Operations [Ref: 1411], and version 3 of

the National Certificate in Forest (Mensuration) (Level 4) [Ref: 0833] based on feedback from users of these qualifications.

Changes to structure and content

- Overall credits have gone from 53-87 to 49-98; the Establishment Strand has increased from 68 to 71; the Breaking Out for Cable Harvesting Strand has decreased from 68 to 66; and the Landing Operations Strand has decreased from 80-70.
- Core Elective 2 has been opened up to allow more flexibility for forestry workers to gain other standards if required.
- The Establishment Strand elective set has been opened up as the two standards previously in that strand will not always be suitable for trainees working in establishment operations.
- A Thinning to Waste (Large Trees) strand has been added. When version 1 of this qualification was submitted this strand was left out as it was thought to be too similar to Thinning to Waste (Small Trees). However, the two operations are very separate and trainees will only work in one or the other, not both. Therefore, the additional strand is needed to differentiate between workers' capabilities.
- A Thinning for Extraction strand has been added. This strand is required as there is now a growing trend to harvest waste for biofuel or biofuel related products.
- Standard 43 has been removed from the Breaking Out for Cable Harvesting strand as candidates working in breaking out operations usually don't own their own chainsaw. Therefore achieving this strand would be difficult while it contains standard 43.
- The Landing Operations strand has been adjusted and contains a compulsory section and an elective to allow workers on mechanised harvesting landings to achieve this qualification by selecting the new standard, 25787 *Carry out quality control of logs on a landing*, from the new elective. Standard 43 has been removed from this strand as not all workers on a landing will be using a chainsaw. Standard 6924 has been moved to the new elective and standard 22132 has been added to the elective.
- A Mensuration strand has been added. This strand recognises the skills required to establish and collect data from sample plots in the forest.

Candidates enrolled in version 1 of this qualification can choose to complete that version or transfer their existing achievements to this version. All new candidates will be enrolled into version 2 of this qualification.

Candidates enrolled in version 3 of the National Certificate in Forestry (Mensuration) [Ref: 0833] can choose to complete this version or transfer their existing achievements to this new version of the National Certificate in Forest Operations (Level 3) with strands in Establishment, Pruning, Thinning to Waste (Small Trees), Thinning to Waste (Large Trees), Tree Felling - Basic Techniques, Thinning for Extraction, Breaking Out for Ground Based Harvesting, Breaking Out for Cable Harvesting, Landing Operations, and Mensuration [Ref: 1411].

For detailed information see [Review Summaries](#) on the NZQA website.

This qualification contains standards that replace or are substitutes for earlier standards. For the purposes of this qualification, people who have gained credit for the expiring standards are exempt from the requirement to gain credit for the replacement standards – see table below.

Credit for	Exempt from
43, 6917	23411
6923	23000
6949	22998
1250	25952

Previous versions of the qualification

Version 1 of this qualification was issued following an extensive review of Forestry standards and qualifications.

Other standard setting bodies whose standards are included in the qualification

NZQA
 Primary Industry Training Organisation

Certification

This certificate will display the logos of NZQA, the Competenz and the accredited organisation.

Classification

This qualification is classified according to the classification system listed on the Directory of Assessment Standards (DAS) and the New Zealand Standard Classification of Education (NZSCED) system as specified below.

DAS Classification		NZSCED	
Code	Description	Code	Description
2001	Agriculture, Forestry and Fisheries > Forestry > Forest Operations	050501	Agriculture, Environmental and Related Studies > Forestry Studies > Forestry Studies

Quality Management Systems

Providers and Industry Training Organisations must be granted consent to assess by a recognised Quality Assurance Body before they can register credits from assessment against standards. Organisation with consent to assess and Industry Training Organisations assessing against standards must engage with the moderation system that applies to those standards. Consent to assess requirements and the moderation system are outlined in the associated Consent and Moderation Requirements (CMR) for each standard.

Appendix 1

FORESTRY QUALIFICATIONS - OVERVIEW

