National Certificate in Forest Operations Advanced (Level 4) with strands in Establishment and Silvicultural Operations Management, 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, Helicopter Logging, and Inventory

Level   **4**

Credits   **40-76**

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 Forest Harvesting Operations (Level 4) with strands in Cable Extraction; Fleet, Sort and Stack; Ground Based Extraction; Head Breaker - Out; Loading; Log Making; Mechanised Felling; Mechanised Processing; Spotting; Swing Yarder Extraction; and Tree Felling [Ref: 2327] and the New Zealand Certificate in Forest Industry Operations (Planning and Monitoring) (Level 4) with strands in Harvesting, Inventory, and Silviculture [Ref: 2330].

Version 4 of this qualification has been republished 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.

This qualification contains expiring unit standards for which replacement unit standards have now been registered. For the purposes of this qualification, people who have gained credit for the replacement unit standards are exempt from the requirement to gain credit for the expiring unit standards.

Credit for	Exempt from
27628	6937
28561	17756

NZQF National Qualification Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	August 2008	December 2012
Review	2	March 2010	December 2014
Revision	3	January 2013	December 2018
Review	4	January 2015	December 2018
Republication	4	September 2015	December 2018

Standard Setting Body

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National Certificate in Forest Operations Advanced (Level 4) with strands in Establishment and Silvicultural Operations Management, 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, Helicopter Logging, and Inventory

Level   **4**

Credits   **40-76**

Purpose

This qualification is designed for experienced forestry workers who have a good understanding of the forestry operation or operations they work in. The knowledge and skills covered in this qualification are related to crew roles requiring specialist skills, and/or skills leading to crew management are covered in this qualification.

The qualification includes a core compulsory set, a core elective set, and specialist strands. The core compulsory and core elective contain generic knowledge and skills which are applicable in a variety of forest operations, and enable crews to operate in a manner which meets customer needs as well as regulatory requirements. Each strand in this qualification allows candidates to specialise, and to gain advanced knowledge and skills pertaining to the operation they are required to work in.

This qualification builds on the knowledge and skills contained in the National Certificate in Forest Operations (Level 3) with strands in Establishment, Pruning, Thinning to Waste (Small 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].

As the Establishment and Silvicultural Operations Management strand covers management skills related to a variety of Silvicultural operations, candidates must have experience and qualifications in more than one Silvicultural operation before enrolling in this strand.

Candidates who have completed this qualification will have a wide range of technical skills relating to the operation they are employed in. They will be completely responsible for their own output, and will have the skills and knowledge required to monitor the output of other crew members when required. Depending on the selection of standards some candidates will be capable of operational management for their worksite.

The inclusion of Set B in the core elective section provides opportunities for employers and candidates to select standards from other areas of the Directory of Assessment Standards that meet the specific requirements of the enterprise.

People who complete this qualification may continue onto the National Certificate in Forestry (Operations Management) [Ref: 0834], the National Certificate in Forestry (Business Management) [Ref: 0820], the National Certificate in Forest Operations Management (Senior Crew Manager) [Ref: 1614] and/or the National Diploma in Forestry (Forest Management) (Level 6) [Ref: 0232].

Special Notes

- It is recommended that candidates hold 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], or demonstrate equivalent knowledge and skills before they commence this qualification.
- People completing the Establishment and Silvicultural Operations Management strand must have completed the National Certificate in Forest Operations (Level 3) with a minimum of two of the following strands: Establishment, Pruning, Thinning to Waste (Small Trees), Thinning to Waste (Large Trees), Thinning for Extraction [Ref: 1411], or demonstrated equivalent knowledge and skills.
- People completing the Production Tree Felling strand must have completed the National Certificate in Forest Operations (Level 3) with the Tree Felling – Basic Techniques strand [Ref: 1411], or demonstrated equivalent knowledge and skills.
- People completing the Head Breaker Out – Cable Harvesting strand must have completed the National Certificate in Forest Operations (Level 3) with the Breaking Out for Cable Harvesting strand [Ref: 1411], or demonstrated equivalent knowledge and skills.
- People completing the Log Making strand must have completed the National Certificate in Forest Operations (Level 3) with the Landing Operations strand [Ref: 1411], or demonstrated equivalent knowledge and skills.
- People completing the Inventory strand must have completed the National Certificate in Forest Operations (Level 3) with the Mensuration strand [Ref: 1411], or demonstrated equivalent knowledge and skills.
- People completing the Helicopter Logging strand must have completed the National Certificate in Forest Operations (Level 3) with the Tree Felling – Basic Techniques strand [Ref: 1411], or demonstrated equivalent knowledge and skills.
- The diagram in Appendix 1 illustrates pathways between Forestry qualifications at Levels 2, 3 and 4.

Credit Range

	Core Compulsory	Core Elective	Establishment and Silvicultural Operations Management Strand	
			C	E
Level 2 credits	-	0-10	-	0-10
Level 3 credits	-	0-10	-	0-10
Level 4 or above credits	10	0-10	14	6-16
Minimum totals	20		14	16
Qualification total with strand			50	

	Production Tree Felling Strand			Hauler Set-up Strand		Machine Operations - Hauler Strand	
	C	E1	E2	C	E	C	E
Level 3 credits	-	-	-	-	0-10	8	0-10
Level 4 or above credits	28	6	10	33	5-15	33	5-15
Minimum totals	28	16		33	15	41	15
Qualification total with strand	64			68		76	

	Head Breaker Out - Cable Harvesting Strand		Log Making Strand	Machine Operations - Log Extraction Strand		
	C	E	C	C	E1	E2
Level 3 credits	10	0-10	8	4	10	0-6
Level 4 or above credits	27	5-15	20	20	-	0-6
Minimum totals	37	15	28	24	10	6
Qualification total with strand	72		48	60		

	Machine Operations - Loader Strand		Mechanised Tree Felling Strand			Mechanised Processing Strand	
	C	E	C	E1	E2	C	E
Level 3 credits	4	10	5	10	-	10	10
Level 4 or above credits	30	-	20	-	8	30	-
Minimum totals	34	10	25	10	8	40	10
Qualification total with strand	64		63			70	

	Helicopter Logging Strand		Inventory Strand	
			C	E
Level 3 credits	6		-	-
Level 4 or above credits	44		15	5-8
Minimum totals	50		15	5
Qualification total with strand	70		40	

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

A minimum of 40 credits at Level 4 or above
- Core Compulsory standards
- Core Elective - A minimum of 10 credits as specified

One of the following strands is required
- Establishment and Silvicultural Operations Management Strand
- Production Tree Felling Strand
- Hauler Set-Up Strand
- Machine Operations - Hauler Strand
- Head Breaker Out - Cable Harvesting Strand
- Log Making Strand
- Machine Operations - Log Extraction Strand
- Machine Operations - Loader Strand
- Mechanised Tree Felling Strand
- Mechanised Processing Strand
- Helicopter Logging Strand
- Inventory Strand

Detailed Requirements

Core Compulsory
The following standards are required

Agriculture, Forestry and Fisheries > Forestry > Forest Operations Advanced

ID	Title	Level	Credit
24571	Demonstrate knowledge of internal and external customer needs within a commercial forestry operation	4	4
24577	Demonstrate knowledge of health and safety management in a commercial forestry operation	4	6

Core Elective
A minimum of 10 credits at Level 2 or above
From the following sets
- Set A
- Set B

Set A

Agriculture, Forestry and Fisheries > Forestry > Forest Operations

ID	Title	Level	Credit
25788	Demonstrate knowledge of, implement, and audit temporary traffic control on private forest roads	3	6

Agriculture, Forestry and Fisheries > Forestry > Forest Operations Advanced

ID	Title	Level	Credit
1224	Use prescription maps for forestry operations	4	4
17773	Apply environmental management to harvesting trees in a low environmental risk situation	4	6
24572	Manage a forestry accident site in a simulated situation	4	7

Agriculture, Forestry and Fisheries > Primary Sector > Plant Pest, Weed, and Disease Control

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

Health > Occupational Health and Safety > Occupational Health and Safety Practice

ID	Title	Level	Credit
17601	Produce an occupational health and safety incident investigation	4	6

Set B
From anywhere on the DAS

Establishment and Silvicultural Operations Management Strand
Meet the requirements of all of the following sets
- Establishment and Silvicultural Operations Management Strand Compulsory
- Establishment and Silvicultural Operations Management Strand Elective

Establishment and Silvicultural Operations Management Strand Compulsory
The following standards are required

Agriculture, Forestry and Fisheries > Forestry > Forest Operations Advanced

ID	Title	Level	Credit
24576	Supervise a crew in a commercial forest operation	4	8

Agriculture, Forestry and Fisheries > Forestry > Forest Operations Management

ID	Title	Level	Credit
25747	Plan for and monitor production and quality of a forestry operation	5	6

Establishment and Silvicultural Operations Management Strand Elective
A minimum of 16 credits
- Of which a minimum of 6 credits at Level 4 or above

Agriculture, Forestry and Fisheries > Forestry > Forest Establishment

ID	Title	Level	Credit
6966	Apply environmental management to mechanised land preparation operations	4	10

Agriculture, Forestry and Fisheries > Forestry > Forest Health Surveillance

ID	Title	Level	Credit
18615	Demonstrate the use of the Global Positioning System in forestry operations	5	5

Agriculture, Forestry and Fisheries > Forestry > Forest Operations Management

ID	Title	Level	Credit
6963	Plan forestry operations to meet environmental requirements	5	12
24573	Plan for, manage, and perform quality control on a production thinning operation	5	15

Agriculture, Forestry and Fisheries > Forestry > Forestry Knowledge

ID	Title	Level	Credit
1145	Demonstrate knowledge of environmental legislation affecting commercial forestry	5	2
1146	Demonstrate knowledge of health and safety legislation affecting commercial forestry	5	2

Field	Subfield	Domain
Agriculture, Forestry and Fisheries	Agriculture	Agricultural Vehicles and Machinery
	Forestry	Forest Silvicultural Operations

Production Tree Felling Strand
Meet the requirements of all of the following sets
- Production Tree Felling Strand Compulsory
- Production Tree Felling Strand Elective 1
- Production Tree Felling Strand Elective 2

Production Tree Felling Strand Compulsory
The following standards are required

Agriculture, Forestry and Fisheries > Forestry > Tree Felling

ID	Title	Level	Credit
17765	Fell trees in a commercial forest harvesting operation	4	20
19765	Assess and deal with individual windthrown trees in a forest plantation	4	8

Production Tree Felling Strand Elective 1
A minimum of 6 credits

Agriculture, Forestry and Fisheries > Forestry > Tree Felling

ID	Title	Level	Credit
24569	Fell trees using machine pushing assistance	4	6
24570	Fell trees using back-pulling machine assistance	4	6

Production Tree Felling Strand Elective 2
A minimum of 10 credits

Agriculture, Forestry and Fisheries > Forestry > Forest Operations Advanced

ID	Title	Level	Credit
6964	Apply environmental management to harvesting trees	4	10

Agriculture, Forestry and Fisheries > Forestry > Forest Operations Management

ID	Title	Level	Credit
24582	Plan for, manage, and perform quality control on a ground based motor manual clear fell harvesting operation	5	15

Agriculture, Forestry and Fisheries > Forestry > Tree Felling

ID	Title	Level	Credit
1270	Salvage windthrown trees	4	12
17756	Assess and manage individual hazardous trees	4	15
24585	Use tree jacks to fell trees	4	10

Hauler Set-Up Strand
Meet the requirements of all of the following sets
- Hauler Set-Up Strand Compulsory
- Hauler Set-Up Strand Elective

Hauler Set-Up Strand Compulsory
The following standards are required

Agriculture, Forestry and Fisheries > Forestry > Forest Harvesting Operations

ID	Title	Level	Credit
1262	Position, secure and raise an integral tower on a cable yarder	4	10
1268	Prepare wire ropes, rigging, and equipment for cable harvesting operations	4	15
24578	Plan and manage a cable yarder downtower operation and plan the relocation of the cable yarder	4	8

Hauler Set-Up Strand Elective
A minimum of 15 credits
- Of which a minimum of 5 credits at Level 4 or above

Agriculture, Forestry and Fisheries > Forestry > Forest Harvesting Operations

ID	Title	Level	Credit
1269	Plan, prepare for, and carry out lineshifts in a cable harvesting operation	4	15
17764	Plan and rig an elevated support system for a cable harvesting operation	4	15
17771	Carry out lineshifts in a cable harvesting operation using a mobile tailhold machine	4	15

Agriculture, Forestry and Fisheries > Forestry > Forest Operations Management

ID	Title	Level	Credit
26799	Plan for, manage, and perform quality control on a cable harvesting operation	5	15

Agriculture, Forestry and Fisheries > Forestry > Machine Operations - Forestry

ID	Title	Level	Credit
6934	Operate a skidder in a forestry situation	3	10
6935	Operate an excavator based tracked machine in a forestry situation	3	10
6936	Operate a tracked machine in a forestry situation	3	10

Machine Operations - Hauler Strand
Meet the requirements of all of the following sets
- Machine Operations - Hauler Strand Compulsory
- Machine Operations - Hauler Strand Elective

Machine Operations - Hauler Strand Compulsory
The following standards are required

Agriculture, Forestry and Fisheries > Forestry > Forest Harvesting Operations

ID	Title	Level	Credit
1268	Prepare wire ropes, rigging, and equipment for cable harvesting operations	4	15
6920	Demonstrate knowledge of cable harvesting operations	3	8
6921	Extract stems using a cable yarder	4	18

Machine Operations - Hauler Strand Elective
A minimum of 15 credits
- Of which a minimum of 5 credits at Level 4 or above

Agriculture, Forestry and Fisheries > Forestry > Forest Harvesting Operations

ID	Title	Level	Credit
1269	Plan, prepare for, and carry out lineshifts in a cable harvesting operation	4	15
17771	Carry out lineshifts in a cable harvesting operation using a mobile tailhold machine	4	15

Agriculture, Forestry and Fisheries > Forestry > Forest Operations Management

ID	Title	Level	Credit
26799	Plan for, manage, and perform quality control on a cable harvesting operation	5	15

Agriculture, Forestry and Fisheries > Forestry > Machine Operations - Forestry

ID	Title	Level	Credit
6934	Operate a skidder in a forestry situation	3	10
6935	Operate an excavator based tracked machine in a forestry situation	3	10
6936	Operate a tracked machine in a forestry situation	3	10

Head Breaker Out - Cable Harvesting Strand
Meet the requirements of all of the following sets
- Head Breaker Out - Cable Harvesting Strand Compulsory
- Head Breaker Out - Cable Harvesting Strand Elective

Head Breaker Out - Cable Harvesting Strand Compulsory
The following standards are required

Agriculture, Forestry and Fisheries > Forestry > Forest Harvesting Operations

ID	Title	Level	Credit
1269	Plan, prepare for, and carry out lineshifts in a cable harvesting operation	4	15

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

ID	Title	Level	Credit
1231	Prepare wire ropes for forest harvesting operations	3	10
1258	Coordinate breaking-out for a cable harvesting operation	4	12

Head Breaker Out - Cable Harvesting Strand Elective
A minimum of 15 credits
- Of which a minimum of 5 credits at Level 4

Agriculture, Forestry and Fisheries > Forestry > Forest Harvesting Operations

ID	Title	Level	Credit
1268	Prepare wire ropes, rigging, and equipment for cable harvesting operations	4	15
17771	Carry out lineshifts in a cable harvesting operation using a mobile tailhold machine	4	15

Agriculture, Forestry and Fisheries > Forestry > Forest Operations Management

ID	Title	Level	Credit
26799	Plan for, manage, and perform quality control on a cable harvesting operation	5	15

Agriculture, Forestry and Fisheries > Forestry > Machine Operations - Forestry

ID	Title	Level	Credit
6934	Operate a skidder in a forestry situation	3	10
6935	Operate an excavator based tracked machine in a forestry situation	3	10
6936	Operate a tracked machine in a forestry situation	3	10

Log Making Strand
The following standards are required

Agriculture, Forestry and Fisheries > Forestry > Forest Landing Operations

ID	Title	Level	Credit
1254	Mark logs to optimise value	4	12
6924	Process tree stems on a landing	3	8
24588	Demonstrate knowledge of forestry landing management	4	8

Machine Operations - Log Extraction Strand
Meet the requirements of all of the following sets
- Machine Operations - Log Extraction Strand Compulsory
- Machine Operations - Log Extraction Strand Elective 1
- Machine Operations - Log Extraction Strand Elective 2

Machine Operations - Log Extraction Strand Compulsory
The following standards are required

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

ID	Title	Level	Credit
1256	Demonstrate knowledge of ground based log extraction	3	4

Agriculture, Forestry and Fisheries > Forestry > Machine Operations - Forestry

ID	Title	Level	Credit
27628	Extract stems using a ground based machine	4	20

Machine Operations - Log Extraction Strand Elective 1
A minimum of 10 credits

Agriculture, Forestry and Fisheries > Forestry > Forest Mechanised Harvesting

ID	Title	Level	Credit
6946	Operate a forwarder in a forestry situation	3	10

Agriculture, Forestry and Fisheries > Forestry > Machine Operations - Forestry

ID	Title	Level	Credit
6934	Operate a skidder in a forestry situation	3	10
6935	Operate an excavator based tracked machine in a forestry situation	3	10
6936	Operate a tracked machine in a forestry situation	3	10

Machine Operations - Log Extraction Strand Elective 2
A minimum of 6 credits

Agriculture, Forestry and Fisheries > Forestry > Forest Mechanised Harvesting

ID	Title	Level	Credit
6947	Bunch tree lengths for extraction or processing	4	10
6948	Delimb stems using a static delimber	4	8

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

ID	Title	Level	Credit
1231	Prepare wire ropes for forest harvesting operations	3	10

Agriculture, Forestry and Fisheries > Forestry > Machine Operations - Forestry

ID	Title	Level	Credit
17758	Plan and form an extraction track in a forestry operation	4	6

Machine Operations - Loader Strand
Meet the requirements of all of the following sets
- Machine Operations - Loader Strand Compulsory
- Machine Operations - Loader Strand Elective

Machine Operations - Loader Strand Compulsory
The following standards are required

Agriculture, Forestry and Fisheries > Forestry > Machine Operations - Forestry

ID	Title	Level	Credit
6926	Demonstrate knowledge of the log loading process	3	4
6931	Fleet, sort, and stack logs	4	15
6932	Load a logging truck and/or trailer	4	15

Machine Operations - Loader Strand Elective
A minimum of 10 credits

Agriculture, Forestry and Fisheries > Forestry > Forest Mechanised Harvesting

ID	Title	Level	Credit
6946	Operate a forwarder in a forestry situation	3	10

Agriculture, Forestry and Fisheries > Forestry > Machine Operations - Forestry

ID	Title	Level	Credit
6927	Operate a vehicle mounted hydraulic loader in a commercial forestry environment	3	10

ID	Title	Level	Credit
6928	Operate a Bell machine in a forest or log yard situation	3	10
6930	Operate a forked loader in a forestry or log yard situation	3	10
6935	Operate an excavator based tracked machine in a forestry situation	3	10

Mechanised Tree Felling Strand

Meet the requirements of all of the following sets

- Mechanised Tree Felling Strand Compulsory
- Mechanised Tree Felling Strand Elective 1
- Mechanised Tree Felling Strand Elective 2

Mechanised Tree Felling Strand Compulsory

The following standards are required

Agriculture, Forestry and Fisheries > Forestry > Forest Mechanised Harvesting

ID	Title	Level	Credit
6941	Demonstrate knowledge of forest mechanised harvesting and processing	3	5
6945	Fell trees using a mechanised harvesting machine	4	20

Mechanised Tree Felling Strand Elective 1

A minimum of 10 credits

Agriculture, Forestry and Fisheries > Forestry > Forest Mechanised Harvesting

ID	Title	Level	Credit
6946	Operate a forwarder in a forestry situation	3	10

Agriculture, Forestry and Fisheries > Forestry > Machine Operations - Forestry

ID	Title	Level	Credit
6935	Operate an excavator based tracked machine in a forestry situation	3	10
24590	Operate a self-levelling machine in a forestry situation	3	10

Mechanised Tree Felling Strand Elective 2

A minimum of 8 credits

Agriculture, Forestry and Fisheries > Forestry > Forest Mechanised Harvesting

ID	Title	Level	Credit
6943	Delimb tree lengths using a mechanised delimber	4	12
6947	Bunch tree lengths for extraction or processing	4	10

ID	Title	Level	Credit
6948	Delimb stems using a static delimber	4	8

Mechanised Processing Strand
Meet the requirements of all of the following sets
- Mechanised Processing Strand Compulsory
- Mechanised Processing Strand Elective

Mechanised Processing Strand Compulsory
The following standards are required

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 Mechanised Harvesting

ID	Title	Level	Credit
6941	Demonstrate knowledge of forest mechanised harvesting and processing	3	5
6943	Delimb tree lengths using a mechanised delimber	4	12
6944	Make logs using a mechanised processing machine	4	18

Mechanised Processing Strand Elective
A minimum of 10 credits

Agriculture, Forestry and Fisheries > Forestry > Forest Mechanised Harvesting

ID	Title	Level	Credit
6946	Operate a forwarder in a forestry situation	3	10
24584	Demonstrate use of a computerised system for controlling harvester functions in a forestry operation	4	5

Agriculture, Forestry and Fisheries > Forestry > Machine Operations - Forestry

ID	Title	Level	Credit
6935	Operate an excavator based tracked machine in a forestry situation	3	10
24590	Operate a self-levelling machine in a forestry situation	3	10

Helicopter Logging Strand
The following standards are required

Agriculture, Forestry and Fisheries > Forestry > Forest Harvesting Operations

ID	Title	Level	Credit
19761	Demonstrate knowledge of helicopter logging	3	6
19762	Prepare logs for extraction by helicopter	4	6
19763	Measure, mark, and record log details for helicopter extraction	4	8
19764	Manage a helicopter forest harvesting operation	5	10

Agriculture, Forestry and Fisheries > Forestry > Tree Felling

ID	Title	Level	Credit
17765	Fell trees in a commercial forest harvesting operation	4	20

Inventory Strand
Meet the requirements of all of the following sets
- Inventory Strand Compulsory
- Inventory Strand Elective

Inventory Strand Compulsory
The following standards are required

Agriculture, Forestry and Fisheries > Forestry > Forest Mensuration

ID	Title	Level	Credit
6955	Carry out forest pre-harvest inventory sampling	4	10
17768	Establish and measure permanent sample plots for forest management and research	4	5

Inventory Strand Elective
A minimum of 1 standard

Agriculture, Forestry and Fisheries > Forestry > Forest Mensuration

ID	Title	Level	Credit
6956	Carry out waste assessment in cutover forest	4	5

Agriculture, Forestry and Fisheries > Forestry > Forest Operations Advanced

ID	Title	Level	Credit
24576	Supervise a crew in a commercial forest operation	4	8

Transition Arrangements

Version 3

Version 3 was issued following a revision.

Changes to structure and content
- The title of standard 24576 has changed from *Manage a crew in a commercial forest operation* to *Supervise a crew in a commercial forest operation*. This gives an improved separation between supervisors and managers.
- The Production Tree Felling strand has had the compulsory section adjusted resulting in the machine assisted felling standards (24569 and 24570) being moved to an elective section. In most operations machinery is only suited to one of these assisted felling operations.
- Standard 1266 is expiring and has been replaced by unit standard 26799 in the Hauler Set-Up, Machine Operations – Hauler and Head Breaker out – Cable Harvesting strands.
- Standard 1231 has been reduced from Level 4 to Level 3. This change is reflected in the Head Breaker Out – Cable Harvesting and Machine Operations – Log Extraction strands.
- Standard 6937 is expiring and has been replaced by unit standard 27628 in the Machine Operations – Log Extraction strand.
- Standard 24584 relating to use of a computerised system in a mechanised harvesting machine is related to processing of logs rather than felling. This unit standard has been moved from the Mechanised Tree Felling strand to the Mechanised Processing strand.
- The title for standard 17771 in several of the strand electives has been amended and the credits have increased from 5 to 15.

For detailed information see Review Summaries on the NZQA website.

This qualification contains standards that replace 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
1255	24569, 24570
1266	26799
2722	20613
2723	20597
2724	20599
6937	27628

Candidates enrolled in version 2 of this qualification can choose to complete that version or transfer their existing achievements to this version. All new candidates will be enrolled in version 3 of this qualification.

Previous versions of the qualification

Version 1 was developed following an extensive review of Forestry standards and qualifications.

Version 2 was issued following a review.

Other standard setting bodies whose standards are included in the qualification

Primary Industry Training Organisation
The Skills Organisation

Certification

This certificate will display the logos of NZQA, the Competenz and the organisation that has been granted consent to assess against standards that meet the requirements of the qualification (accredited).

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
2002	Agriculture, Forestry and Fisheries > Forestry > Forest Operations Advanced	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