

National Diploma in Forestry (Forest Management) (Level 6)

Level	6
Credits	300

This qualification is **expiring**. The last date to meet the requirements is 31 December 2012.

Purpose

This diploma is awarded to people who have demonstrated competence in forest management. The qualification recognises the skills and knowledge required to manage a commercial plantation forest on a sustainable basis, and to meet the objectives of the forest owner. Holders of this diploma will be able to manage the range of forest operations associated with the establishment, tending, harvesting and re-establishment of production forests on a sustainable basis.

The diploma recognises a blend of skills from operational forestry, technical forestry, applied science, and business management, necessary for a successful commercial forest enterprise, and includes a number of unit standards from the national certificates in forestry to recognise the practical skills required of a forest manager. For this reason it is recommended that people entering the qualification have practical experience within a commercial forest.

The National Certificates in Forestry at level 4 provide a lead-in to this qualification, and certificate holders will meet the recommended entry requirements for this diploma.

Replacement Information

This qualification has been replaced by the National Diploma in Forestry (Operations Management) [Ref: 1532].

Credit Range

	Compulsory	Elective A	Elective B
Level 2 credits	25	0-8	0-27
Level 3 credits	25	0-21	0-27
Level 4 credits	47	0-44	0-27
Level 5 credits	74	0-41	0-27
Level 6 credits	17	0-98	0-27
Level 7 credits	15	0-30	0-27
Minimum totals	203	70	27

Requirements for Award of Qualification

Award of NQF 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 in section 7 of the New Zealand Qualifications Authority (NZQA) *Rules and Procedures* publications available at <http://www.nzqa.govt.nz/ncea/acrp/index.html>.

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 300 credits
 - Of which a minimum of 72 credits at Level 6 or above
- Compulsory standards
- Elective A – A minimum of 70 credits as specified
- Elective B – Balance

Detailed Requirements

Compulsory

The following standards are required

Agriculture, Forestry and Fisheries > Forestry > Chainsaw Operating

ID	Title	Level	Credit
6916	Demonstrate knowledge of the Code of Practice relating to chainsaw use	2	5
6917	Operate a chainsaw	3	5

Agriculture, Forestry and Fisheries > Forestry > Forest Establishment

ID	Title	Level	Credit
1234	Plant plantation trees	4	5
1236	Demonstrate knowledge of releasing plantation trees	2	4
1237	Release plantation trees using agrichemicals	4	10
6923	Demonstrate knowledge of planting plantation trees	2	3

Agriculture, Forestry and Fisheries > Forestry > Forest Harvesting

ID	Title	Level	Credit
1140	Demonstrate knowledge of harvesting operations in commercial forestry	5	9

Agriculture, Forestry and Fisheries > Forestry > Forest Health Surveillance

ID	Title	Level	Credit
5870	Demonstrate knowledge of forest health protection principles	4	5

Agriculture, Forestry and Fisheries > Forestry > Forest Inventory

ID	Title	Level	Credit
1125	Plan and implement forest inventories to obtain information for forest management	5	10
1129	Use stand growth models to forecast growth and yield in commercial forestry	6	5
1130	Demonstrate knowledge of the principles of forest valuation	6	3

Agriculture, Forestry and Fisheries > Forestry > Forest Mensuration

ID	Title	Level	Credit
1222	Establish and measure sample plots for forest operations	4	6
1225	Calculate production targets and unit rates for forestry operations	5	8

Agriculture, Forestry and Fisheries > Forestry > Forestry Business Management

ID	Title	Level	Credit
4287	Determine employment arrangements for forestry personnel	5	7
4289	Prepare a business plan for use in forestry	6	6
4291	Interpret contract documentation and plan management of forestry contracts	5	6
4294	Demonstrate knowledge of procedures for costing forestry activities	5	4
4297	Prepare a tender for forestry operations	6	3
4298	Present an overview of the forestry industry and an analysis of a selected forestry sector	5	4
4300	Demonstrate knowledge of key issues in forestry production management	5	2

Agriculture, Forestry and Fisheries > Forestry > Forestry Knowledge

ID	Title	Level	Credit
17769	Demonstrate knowledge of the general requirements for employment in a plantation forest	2	5

Agriculture, Forestry and Fisheries > Forestry > Forest Silviculture

ID	Title	Level	Credit
1136	Plan management of forest estate for commercial forestry	7	15
1138	Demonstrate knowledge of silviculture in commercial forestry	5	8
1243	Prune plantation trees from the ground	4	5
6949	Demonstrate knowledge of pruning plantation trees	2	4
6951	Demonstrate knowledge of selecting plantation trees	2	4
6952	Select plantation trees for a forest crop	3	5

Agriculture, Forestry and Fisheries > Forestry > Log Making

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

Agriculture, Forestry and Fisheries > Forestry > Technical Forestry

ID	Title	Level	Credit
1123	Use maps and photogrammetry to survey land for commercial forestry	4	4
1124	Use maths and statistics functions and procedures in commercial forestry	5	6
1126	Demonstrate knowledge of botany for commercial forestry	3	8
1127	Demonstrate knowledge of wood science for commercial forestry	4	8
1145	Demonstrate knowledge of environmental legislation affecting commercial forestry	5	2
1146	Demonstrate knowledge of health and safety legislation affecting commercial forestry	5	2
1147	Demonstrate knowledge of property legislation affecting commercial forestry	5	3
14666	Demonstrate knowledge of earth science for commercial forestry	4	4
14667	Demonstrate knowledge of forest ecology	5	3

Health > Health Studies > Core Health

ID	Title	Level	Credit
6400	Manage first aid in emergency situations	3	2

Elective A

A minimum of 70 credits

Agriculture, Forestry and Fisheries > Forestry > Forest Establishment

ID	Title	Level	Credit
1238	Release plantation trees using handtools	3	4

Agriculture, Forestry and Fisheries > Forestry > Forest Harvesting

ID	Title	Level	Credit
1141	Investigate the supervision of commercial forest harvesting prescriptions and specifications	5	7
1142	Demonstrate knowledge of log distribution in commercial forestry	4	4
1143	Prepare an operational forest roading and landing plan	6	12
1144	Prepare an operational forest harvesting plan	6	15

Agriculture, Forestry and Fisheries > Forestry > Forest Mensuration

ID	Title	Level	Credit
6957	Scale logs using a domestic scaling method	4	6
6959	Calculate log scaling volume	5	6

Agriculture, Forestry and Fisheries > Forestry > Forestry Business Management

ID	Title	Level	Credit
4282	Demonstrate knowledge of a systems approach to forestry management	5	2
4283	Develop a health and safety management plan for application in forestry	6	10
4284	Develop a crop protection management system for application in forestry	7	10
4285	Develop a quality management system for application in forestry	7	10
4286	Develop an environmental management plan for application in forestry	6	10
4288	Establish a financial control system for a forestry business	5	6
4290	Manage workforce development in a forestry operation	6	6

ID	Title	Level	Credit
4292	Select information technology and determine management procedures for forestry use	6	5
4293	Determine forestry operations equipment requirements	6	3
4295	Determine financial requirements and resourcing options for a forestry business	4	3
4296	Identify commercial protection requirements for a forestry business	5	2
4299	Determine key issues in employment in forestry	5	2
4301	Establish a production control system for a forestry operation	6	7

Agriculture, Forestry and Fisheries > Forestry > Forestry Knowledge

ID	Title	Level	Credit
13108	Describe effects of hydration and nutrition on safety, health and performance of forestry workers	2	4
13109	Demonstrate knowledge of factors which impair the performance of forestry workers	2	4

Agriculture, Forestry and Fisheries > Forestry > Forest Silviculture

ID	Title	Level	Credit
1132	Manage establishment operations for commercial forestry	6	15
1133	Manage forest tending for commercial forestry	6	15
1135	Demonstrate knowledge of nutrient management in commercial forestry	5	4
1245	Prune plantation trees from off the ground	4	8

Agriculture, Forestry and Fisheries > Forestry > Log Making

ID	Title	Level	Credit
1254	Mark logs to optimise value	4	10
6924	Process tree stems on a landing	4	8

Agriculture, Forestry and Fisheries > Forestry > Technical Forestry

ID	Title	Level	Credit
1131	Demonstrate knowledge of seeds, nurseries, and tree improvement in commercial forestry	5	4
1137	Demonstrate knowledge of forestry and its role as a land use	7	10

Agriculture, Forestry and Fisheries > Forestry > Tree Felling

ID	Title	Level	Credit
17763	Demonstrate knowledge of tree felling	3	5
17766	Fell trees safely using a chainsaw and basic techniques	3	5

Community and Social Services > Fire and Rescue Services > Fire and Rescue Services - Vegetation

ID	Title	Level	Credit
3285	Protect personal safety at vegetation fires	3	3
3286	Control vegetation fire using dry fire fighting techniques	3	2
3287	Suppress vegetation fire with water and water with additives	3	2
4648	Explain fundamentals of vegetation fire behaviour	5	8

Law and Security > Biosecurity > Border Quarantine

ID	Title	Level	Credit
16819	Demonstrate knowledge of global biosecurity awareness and the New Zealand response	4	5

Elective B

The balance of credits to achieve

A minimum of 300 credits

- Of which a minimum of 72 credits at Level 6 or above

May come from the following

Field	Subfield	Domain
Business	Management	Any
Community and Social Services	Fire and Rescue Services	Fire and Rescue Services - Generic Fire Fighting
		Fire and Rescue Services - Vegetation
Computing and Information Technology	Computing	Generic Computing
Health	Health Studies	Core Health
	Occupational Health and Safety	Occupational Health and Safety Practice
		Workplace Health and Safety Management
Humanities	Communication Skills	Any

Transition Arrangements

Version 6

Version 6 was issued to indicate that this qualification is expiring.

This qualification has been replaced by the National Diploma in Forestry (Operations Management) [Ref: 1532].

People currently working towards this qualification must gain credit for expiring standards 6923, 6949, 13108, and 13109 by 31 December 2011 or gain credit for the relevant replacement standards (see reverse transition).

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
13, 43	6916, 6917
1128	14666, 14667
1226	6957, 6959
1232, 1241	6923, 6949
1242	6951, 6952
5870	16819
6940	17766
1211, 1213, 1214, 1215	17769

Reverse Transition

This qualification contains standards that have been replaced by a later standard. For the purposes of this qualification, people who have gained credit for the replacement standard are exempt from the requirement to gain credit for the expiring standards – see table below.

Credit for	Exempt from
22994	13108, 13109
22998	6949
23000	6923

Previous versions of the qualification

Version 5 was reviewed and issued to take account of reviews of Forestry unit standards. The qualification requirements have been amended in line with the minimum credit requirements for a diploma specified in the New Zealand Register of Quality Assured Qualifications (NZQA, 2001).

Changes include: qualification requirements amended; title amended to include the level; unit standard 5870 added to the Compulsory section; unit standard 16819 moved from Compulsory to Elective A; compulsory section total increased from 200 to 203 credits; unit standards 4283 and 4286 reduced from level 7 to level 6; unit standard 1147 credits increased from 2 to 3. For the purposes of version 5 of this qualification, people who have gained credit for unit standard 16819 will be exempt from the requirement to gain credit for unit standard 5870. People part way through version 4 may complete the requirements of that version or transfer their results to version 5. The last date for completion of version 4 is December 2005. The last date for completion of all other versions is December 2003.

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
13, 43	6916, 6917
1128	14666, 14667
1226	6957, 6959
1232, 1241	6923, 6949
1242	6951, 6952
5870	16819
6940	17766
1211, 1213, 1214, 1215	17769

Those people part way through an earlier version of this qualification who have been credited with any of unit standards 32, 43, 1212, 1220, 1221, 1223, 1224, 6925, and 6954 may use those credits towards the requirements of Elective B.

Any version of a unit standard contained within this qualification which retains its original unit standard identification number will continue to meet the requirements of this qualification.

NQF Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	November 1996	December 2003
Revision	2	June 1998	December 2003
Revision	3	November 1999	December 2003
Review	4	February 2001	December 2005
Review	5	September 2002	December 2012
Review	6	January 2010	December 2012

Standard Setting Body

Forest Industries Training and Education Council (FITEC)
 PO Box 137067
 Parnell
 Auckland 1151

Telephone 09 356 7250
 Email info@fitec.org.nz

Other standard setting bodies whose standards are included in the qualification

Fire and Rescue Services Industry Training Organisation
 NZQA

Certification

This certificate will display the logos of NZQA, the Forest Industries Training and Education Council (FITEC) and the accredited organisation.

Classification

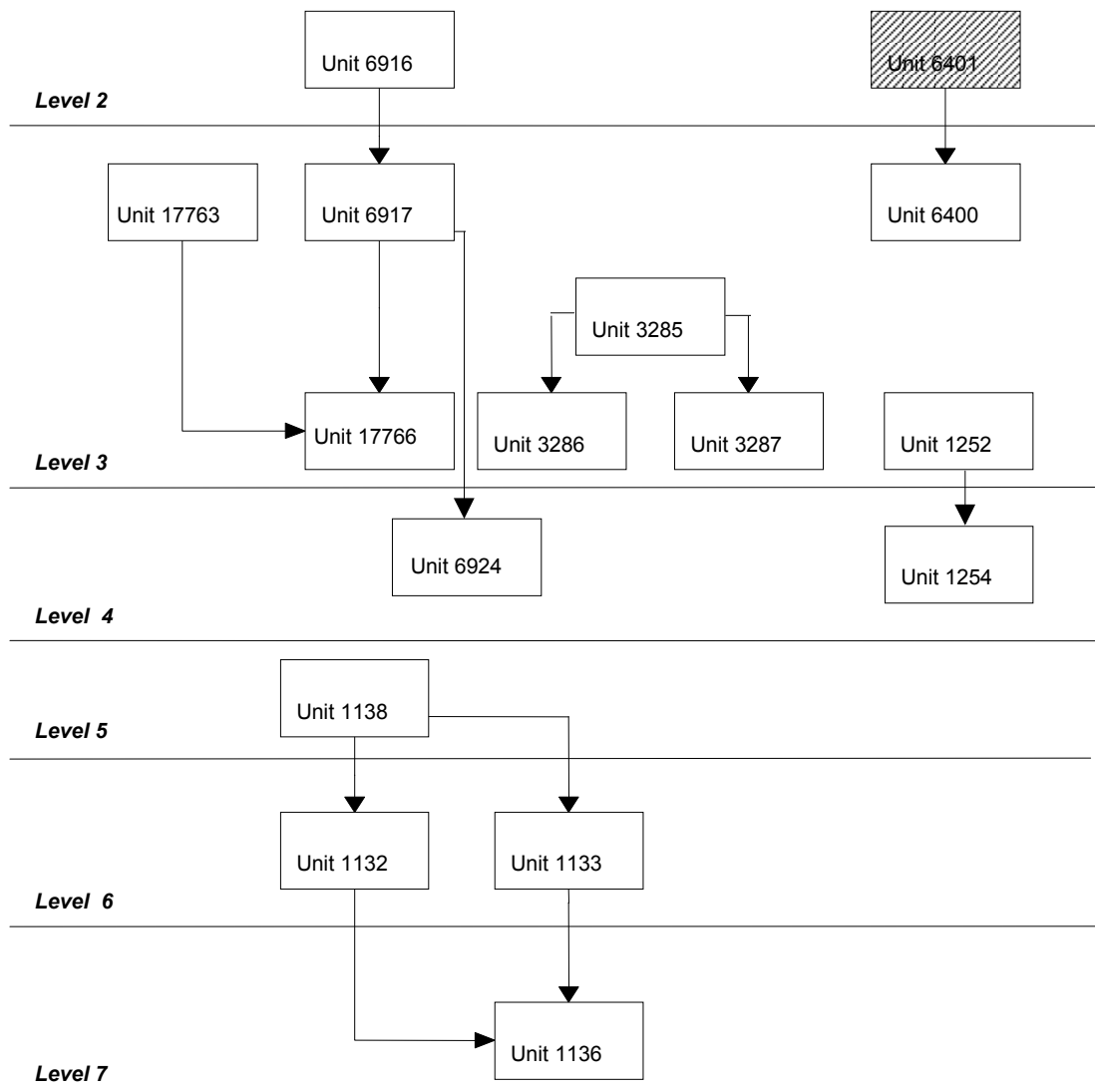
This qualification is classified according to the NQF classification system and the New Zealand Standard Classification of Education (NZSCED) system as specified below.

NQF Classification		NZSCED	
Code	Description	Code	Description
96	Agriculture, Forestry and Fisheries > Forestry	050501	Agriculture, Environmental and Related Studies > Forestry Studies > Forestry Studies

Quality Management Systems

Providers and Industry Training Organisations must be accredited by a recognised Quality Assurance Body before they can register credits from assessment against standards. Accredited providers and Industry Training Organisations assessing against standards must engage with the moderation system that applies to those standards. Accreditation requirements and the moderation system are outlined in the associated Accreditation and Moderation Action Plan (AMAP) for each standard.

Prerequisite Diagram



Key:
 Unit standard not included in this qualification