

National Certificate in Forest Health Surveillance (Level 5)

Level 5

Credits 130

Purpose

This national certificate is awarded to people who have demonstrated competence in the surveillance of forests and trees to detect and monitor health disorders. The certificate recognises knowledge of the management of forests, and of botany, earth science and ecology; the skills and knowledge of the detection and recognition of pests and diseases of trees and forests; and knowledge of the overseas threats to the health of New Zealand's trees and forests.

Special Notes

Due to the nature of the content of the relevant specialist standards, FITEC recommends that prospective candidates hold an appropriate forestry qualification such as a forestry degree, the National Diploma in Forestry (Forest Management) (Level 6) [Ref: 0232], or a New Zealand Certificate in Forestry (the qualification that preceded the National Diploma), and be employed in the forest industry.

Credit Range

	Compulsory	Elective
Level 2 credits	11	0-6
Level 3 credits	13	0-19
Level 4 credits	21	0-20
Level 5 or above credits	57	0-26
Minimum totals	102	28

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

- Compulsory standards
- Elective – A minimum of 28 credits as specified

Detailed Requirements

Compulsory

The following standards are required

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 Health Surveillance

ID	Title	Level	Credit
5695	Identify the characteristics and control of forest insects	6	8
5696	Identify the characteristics and management of forest pathogens	6	8
5697	Identify abiotic disorders affecting forest and tree health	6	6
5870	Demonstrate knowledge of forest health protection principles	4	5
5871	Assess forest health from the air	4	4
5873	Assess forest health in forest nurseries	4	4
22895	Assess the health of forest plantations from the ground	5	10

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

Agriculture, Forestry and Fisheries > Forestry > Forest Silviculture

ID	Title	Level	Credit
1135	Demonstrate knowledge of nutrient management in commercial forestry	5	4
1138	Demonstrate knowledge of silviculture in commercial forestry	5	8

Agriculture, Forestry and Fisheries > Forestry > Non Commercial Forestry Skills

ID	Title	Level	Credit
6917	Operate a chainsaw	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
1131	Demonstrate knowledge of seeds, nurseries, and tree improvement in commercial forestry	5	4
14666	Demonstrate knowledge of earth science for commercial forestry	4	4
14667	Demonstrate knowledge of forest ecology	5	3

Elective

A minimum of 28 credits

Agriculture, Forestry and Fisheries > Agriculture > Agricultural Vehicles and Machinery

ID	Title	Level	Credit
24556	Demonstrate knowledge of the safe operation of an All Terrain Vehicle Utility (ATVU)	2	3
24557	Demonstrate knowledge of the safe operation of an All Terrain Vehicle (ATV)	2	3
24558	Drive an All Terrain Vehicle Utility (ATVU) on undulating terrain	3	5
24559	Ride an All Terrain Vehicle (ATV) on undulating terrain	3	6

Agriculture, Forestry and Fisheries > Forestry > Forest Health Surveillance

ID	Title	Level	Credit
5874	Assess forest health in native forests	5	6
18615	Demonstrate the use of the Global Positioning System in forestry operations	5	5
22894	Carry out High Risk Site Surveillance in the urban forest environment	5	15

Agriculture, Forestry and Fisheries > Forestry > Forest Produce Inspection

ID	Title	Level	Credit
5700	Identify insects and fungi in forest produce for export	4	4
5705	Demonstrate knowledge of quarantine methods and controls for forest produce	4	6

Law and Security > Biosecurity > Border Quarantine

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

Service Sector > Driving > Specialist Driving Knowledge and Skills

ID	Title	Level	Credit
17976	Demonstrate knowledge of operating a light four wheel drive (4WD) vehicle in an off-road environment	3	4
17977	Develop a plan for off-road light four wheel drive (4WD) driving	4	5
17978	Operate a light four wheel drive (4WD) vehicle in an off-road environment	3	4

Transition Arrangements

Version 3

Version 3 was issued to update the procedures for the surveillance of the health of plantation trees, for the surveillance of high risk sites in the urban forest environment, and to reflect unit standard reviews in the forestry subfield.

Changes to structure and content

- Standards 22894 and 22895 have been developed to meet the new requirements of the New Zealand Forest Owners Association for the forest health surveillance of plantation trees, and the new requirements of Biosecurity New Zealand for the surveillance of high risk sites in the urban forest environment such as devaning sites, transitional facilities, and vegetation rich areas. The standards they replace, standard 5872 in the compulsory section of the qualification, and standard 5875 in the elective section of the qualification, are no longer 'fit for purpose'.
- Standard credits, levels and classifications have been updated to take into account reviews of standards by FITEC.
- Standard 1241 has been replaced in the qualification with standard 1138. This reflects the review of standard 1241, the level of the qualification, and the requirements of the target audience.
- Standard 19058 had been replaced by standards 24558 and 24559 to reflect its review by the Agriculture Industry Training Organisation. Their two prerequisite standards, standards 24556 and 24557, have also been added to the elective section.

- Compulsory credits increased from 91 to 102.
- Minimum elective credits increased from 19 to 28.
- Total credits required for the qualification increased from 110 to 130.

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

People currently working towards version 2 of the qualification are required to transfer their results to version 3 of the qualification.

Candidates who feel they have been disadvantaged by these transition arrangements should contact FITEC at the address below.

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
1128	14666, 14667
1211, 1213, 1214, 1215	17769
1241	1138
10099	20559, 24558
19058	24558, 24559

Previous versions of the qualification

Version 2 was issued to move unit standard 16819 out of the compulsory set, and to take account of recent standard reviews. Changes to structure and content: standard 16819 was moved from the compulsory section to the elective section; standards 17976 and 17977 were amended to reflect the changes from the review of standards in the Specialist Driving Knowledge and Skills domain; standard 19058 replaced standard 10099 in the elective to reflect changes resulting from the review of standards in the Agriculture subfield; the compulsory section was reduced from 94 to 91 credits, and the elective section was increased from 16 to 19 credits; and the level was added to the title.

Version 1 of this qualification and the National Certificate in Forest Produce Inspection [Ref: 0908] replaced the National Certificate in Forest Health Protection with strands in Forest Health Surveillance, and Forest Product Quarantine [Ref: 0482].

NQF Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	November 2001	December 2006
Revision	2	November 2005	July 2008
Review	3	July 2008	N/A

Standard Setting Body

Forest Industries Training and Education Council (FITEC)
 PO Box 137 067
 PARNELL
 Auckland

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

Planned Review

Any person or organisation may contribute to the review of this qualification by sending feedback to the standard setting body at the above address.

Next Review	2012
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Other standard setting bodies whose standards are included in the qualification

Agriculture Industry Training Organisation
 New Zealand Horticulture Industry Training Organisation
 Tranzqual ITO

Certification

The certificate will display the logos of NZQA, Forest Industries Training and Education Council 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
1789	Agriculture, Forestry and Fisheries > Forestry > Forest Health Surveillance	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

