

Field **Agriculture, Forestry and Fisheries**

Review of *Apiculture* unit standards

Subfield	Domain	ID
Agriculture	Apiculture	19892, 20255, 20256, 25894, 25895, 30784-30790, 30792, 30793, 30795, 30798-30804, 30843, 31605-31613

Primary Industry Training Organisation has completed the review of the unit standards listed above.

Date new versions published

September 2020

Planned review date

December 2025

Summary

The review commenced in May 2020 to take into account changes to qualification graduate outcomes in the New Zealand Certificate in Apiculture (Level 3) [Ref: 2223]; the New Zealand Certificate in Apiculture (Level 4) [Ref: 2224], and the New Zealand Certificate in Apiculture (Queen Bee Rearing) (Level 4) [Ref: 2225].

A working group was formed which is made up of industry representatives nominated by Apiculture New Zealand (ApiNZ). The working group represented the wider Apiculture industry including queen bee rearing.

Unit standards were sent out to industry stakeholders and all consent to assess holders by online survey in May 2020 and also made available on the ApiNZ website for members to provide feedback.

Feedback was discussed in a meeting with the working group and changes were incorporated where appropriate. The updated unit standards were finalised in mid-July 2020.

Main changes

- Unit standards 25895, 30803, and 31613 were designated expiring without replacement as these standards are no longer required.
- Two new Level 4 unit standards were developed to meet the graduate outcomes of the reviewed qualifications listed above.
- Titles were amended for several unit standards to better reflect content.
- Credits increased for several unit standards to reflect the actual learning and assessment time required to achieve competency.
- Practical unit standard 31610 was designated expiring without replacement since a queen bee rearer is not required to select queen bees.
- A new unit standard was developed to cover the theoretical aspect of queen bee selection.

Category D unit standards will expire at the end of December 2022

The last date for assessment of superseded versions of Category B unit standards is December 2022

Detailed list of unit standards – classification, title, level, and credits

All changes are in **bold**.

Key to review category	
A	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number
B	Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID and a new version number
C	Major changes that necessitate the registration of a replacement standard with a new ID
D	Standard will expire and not be replaced

Agriculture, Forestry and Fisheries > Agriculture > Apiculture

ID	Title	Level	Credit	Review Category
19892	Transport beehives Describe beehive transport requirements, and transport and establish beehives on site	3	5	B
20255	Demonstrate understanding of the role of bees in arable crop, orchard and pasture pollination Demonstrate knowledge of the role of bees in arable crop, orchard and pasture pollination	4	3	B
20256	Demonstrate understanding of the production processes for beehive products Describe honey and honey production, and the production processes for beehive products	4	6	B
25894	Extract honey	3	4	B
25895	Describe and prepare for artificial insemination, and artificially inseminate queen honey bees	5	4	D
30784	Demonstrate understanding of, and carry out, wintering down of beehives Describe and carry out wintering down of beehives	3	3	B
30785	Demonstrate understanding of re-queening and re-queen a beehive Describe re-queening and re-queen a beehive	3	3	B
30786	Develop, implement and monitor a seasonal beehive management plan Implement and monitor a seasonal beehive management plan	4	10	B
30787	Demonstrate understanding of significant exotic bees, bee diseases, disorders, pests and bee management practices Demonstrate knowledge of significant exotic bees, bee diseases, disorders, pests, and bee management practices	4	5	B
30788	Demonstrate understanding of plants that provide feed for bees and harvest declarations Demonstrate knowledge of plants that provide feed for bees and harvest declarations	3	4	B
30789	Demonstrate understanding of endemic bee pests and diseases Describe American foulbrood, varroa mite, and other bee pests and diseases found in New Zealand	3	10	B
30790	Assess beehives, feed bees and demonstrate understanding of bee feed requirements Assess beehive health, monitor beehive feed requirements, and feed bees	3	6	B
30792	Carry out honey harvesting	3	3	B

ID	Title	Level	Credit	Review Category
30793	Implement and monitor food safety procedures in an apiculture operation	4	4	B
30795	Carry out an apiary pest and disease management plan over an apiculture season	3	15	B
30798	Demonstrate understanding of the bee lifecycle Demonstrate knowledge of bees, the bee life cycle and adult bee behaviour patterns	3	4	B
30799	Demonstrate understanding of swarming and swarm control, and unite and divide beehives Describe swarming and methods for swarm control, control a swarm, and unite and divide beehives	3	3	B
30800	Develop, implement and monitor a beehive nutritional management plan Implement and monitor a beehive nutritional management plan	4	6	B
30801	Describe the nutritional requirements of bees and feeding regimes for bees in different seasonal conditions	4	3	B
30802	Demonstrate understanding of flowering plants and their role in beekeeping Describe flowering plants and their role in beekeeping	4	3	B
30803	Research the operation of, and develop a business strategy for, an apiculture business	4	10	D
30804	Develop, implement and monitor a bee disease management plan, and recommend changes Implement and monitor a bee disease management plan, and recommend changes	4	10	B
30843	Identify and describe beehive construction equipment, and construct and repair beehives	3	5	B
31605	Describe the queen bee and drone bee life cycles, anatomy and reproduction processes	4	6 10	B
31606	Prepare a seasonal queen bee rearing management plan	4	4 5	B
31607	Demonstrate knowledge of genetics, bee breeding programmes, and instrumental insemination of queen bees	4	4 8	B
31608	Demonstrate knowledge of, and carry out, hive manipulations for queen bee rearing	4	6 8	B
31609	Prepare a nucleus beehive suitable for producing mated queen bees Prepare a nucleus beehive suitable for producing mated queen bees, and introduce and monitor the queen cell until mated	4	5	B
31610	Assess breeder queen bees and undertake breeder queen bee selection	4	5	D
31611	Prepare queen bee rearing equipment, manipulate beehives for grafting, and graft queen bees Prepare for and graft queen bees and distribute for domestic supply	4	5 8	B

ID	Title	Level	Credit	Review Category
31612	Implement an endemic pest and disease management plan for queen bee rearing Implement a pest and disease management plan for queen bee rearing	4	5	B
31613	Identify goals and objectives, and develop a business strategy for a queen bee rearing business	4	5	D
32204	Describe the selection criteria for breeder queen bees and beehive characteristics	4	6	New
32205	Analyse beehive management and pest and disease management plans, and recommend improvements	4	10	New
32206	Analyse seasonal queen bee rearing and pest and disease management plans, and recommend improvements	4	5	New