

Field Agriculture, Forestry and Fisheries**Review of *Apiculture* unit standards**

Subfield	Domain	ID
Agriculture	Apiculture	19883-19890, 19892, 19893, 20249-20251, 20254-20258, 25889, 25890, 25893, 25894, 25896, 25898, 25899

Primary ITO has completed the review of the unit standards listed above.

Date new versions published

December 2017

Planned review date

December 2022

Summary

As a result of the Targeted Review of Qualifications process, Primary ITO has reviewed a number of unit standards to better reflect the requirements of the outcomes listed in new qualifications. Primary ITO has also developed a number of new unit standards to meet industry need and reflect the outcomes listed in the new qualifications.

There are a number of organisations with consent to assess by level, as well as individual unit standards. They have had the opportunity to review the relevant unit standards and offer feedback, along with industry stakeholders. This consultation was carried out by email in July 2017. All feedback was actioned where appropriate.

Main changes

- The outcomes in 13 unit standards changed significantly and 12 replacement unit standards were developed.
- 12 new unit standards were developed to meet the qualification graduate outcomes.
- Eight unit standards were designated expiring without replacement as they do not meet the qualification graduate outcomes.

Category C and D unit standards will expire at the end of December 2019

The last date for assessment of superseded versions of Category B unit standards is December 2019

Impact on existing accreditations

Current consent for			Consent extended to		
Nature of consent	Classification or ID	Level	Nature of consent	Classification or ID	Level
Field	Agriculture, Forestry and Fisheries	2	Standards	19892, 30784, 30785, 30790, 30843	3
Subfield	Agriculture	2	Standards	19892, 30784, 30785, 30790, 30843	3
		3	Standard	20255, 20256, 30787	4
Domain	Apiculture	2	Standards	19892, 30784, 30785, 30790, 30843	3
		3	Standards	20255, 20256, 30787	4
Standard	19883	2	Standard	30843	3
Standard	19884	2	Standard	30843	3
Standard	19885	2	Standards	30782, 30783	2
Standard	19889	2	Standard	30784	3
Standard	19890	2	Standard	30785	3
Standard	19893	2	Standard	30791	2
Standard	20250	3	Standard	30787	4
Standard	20254	3	Standard	30788	3
Standard	20257	3	Standard	30789	3
Standard	20258	3	Standard	30789	3
Standard	25889	3	Standard	30792	3
Standard	25893	2	Standard	30790	3

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
19883	Demonstrate knowledge of beehive, and beehive frame assembly and repair	2	2	C
19884	Construct and repair beehives, and beehive frames	2	4	C
30843	Identify and describe beehive construction equipment, and construct and repair beehives	3	5	
19885	Open and close a beehive, work in an apiary, and feed a beehive	2	5	C
30782	Feed bees in beehives under close supervision	2	6	
30783	Open and close beehives under close supervision	2	5	

ID	Title	Level	Credit	Review Category
19886	Demonstrate knowledge of disease in the bee colony	2	3	D
19887	Identify disease in a bee colony, and conduct apiary site management in the presence of disease	2	4	D
19888	Demonstrate knowledge of the New Zealand beekeeping industry, and career and training opportunities	2	2	D
19889 30784	Prepare a beehive for wintering Demonstrate understanding of, and carry out, wintering down of beehives	2 3	2 3	C
19890 30785	Requeen a beehive Demonstrate understanding of re-queening and re-queen a beehive	2 3	3 3	C
19892	Shift beehives Transport beehives	2 3	3 5	B
19893 30791	Describe physical characteristics of bees and their behaviour Demonstrate understanding of honey bee physical features, castes, bee stings and beehive health	2 2	3 5	C
20249 30786	Manipulate beehives in spring, evaluate queen performance, and requeen beehives Develop, implement and monitor a seasonal beehive management plan	4 4	7 10	C
20250 30787	Demonstrate knowledge of endemic and exotic bee diseases, disorders, pests, and conditions Demonstrate understanding of significant exotic bees, bee diseases, disorders, pests and bee management practices	3 4	6 5	C
20251	Use and maintain a honey processing plant	4	7	D
20254 30788	Demonstrate knowledge of plants and their role in beekeeping Demonstrate understanding of plants that provide feed for bees and harvest declarations	3 3	6 4	C
20255	Describe the role of bees in pollination Demonstrate understanding of the role of bees in arable crop, orchard and pasture pollination	3 4	3 3	B
20256	Describe the production of beehive products Demonstrate understanding of the production processes for beehive products.	3 4	7 6	B
20257	Demonstrate knowledge of the varroa mite and its control in the beekeeping industry	3	6	C
20258 30789	Demonstrate knowledge of American foulbrood (AFB) and its control in the beekeeping industry Demonstrate understanding of endemic bee pests and diseases	3 3	6 10	C

ID	Title	Level	Credit	Review Category
25889 30792	Remove honey supers from beehives Carry out honey harvesting	3 3	3 3	C
25890	Assist with the commercial extraction of honey and product processing	3	4	D
25893 30790	Describe bee feeding, feeders and types of bee feeding Assess beehives, feed bees and demonstrate understanding of bee feed requirements	2 3	2 6	C
25894	Carry out manual extraction of honey and product processing Extract honey	3	3 4	B
25896	Demonstrate knowledge of honey grading, creaming, and packing	3	2	D
25898	Describe the export system and certification requirements for bee producers and bee products	3	3	D
25899 30793	Describe honey bees, beehives, bee stings, bee diseases, and honey harvesting and processing Implement and monitor food safety procedures in an apiculture operation	2 4	2 4	D New
30794	Demonstrate understanding of managing bee behaviour, and assist with beehive manipulations, under close supervision	2	7	New
30795	Carry out an apiary pest and disease management plan over an apiculture season	3	15	New
30796	Demonstrate understanding of the process, role and significance of plant pollination by bees	2	3	New
30797	Demonstrate understanding of beekeeping equipment and honey extraction, and use equipment for routine operations	2	4	New
30798	Demonstrate understanding of the bee lifecycle	3	4	New
30799	Demonstrate understanding of swarming and swarm control, and unite and divide beehives	3	3	New
30800	Develop, implement and monitor a beehive nutritional management plan	4	6	New
30801	Describe the nutritional requirements of bees and feeding regimes for bees in different seasonal conditions	4	3	New
30802	Demonstrate understanding of flowering plants and their role in beekeeping	4	3	New
30803	Research the operation of, and develop a business strategy for, an apiculture business	4	10	New
30804	Develop, implement and monitor a bee disease management plan, and recommend changes	4	10	New