

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

Subfield	Domain	ID
Horticulture	Fruit Production	775, 811, 830, 831, 832, 21218, 21221
	Production Horticulture	794, 22175, 22177, 22178, 22179, 22186, 22189, 22193, 23358, 23707
	Nursery Production	20555, 20557, 20558, 20562, 20565, 20573, 27706
	Viticulture	19924, 19929, 19942

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

Date new versions published

January 2017

Planned review date

December 2021

Summary

As a result of the Targeted Review of Qualifications process, Primary ITO has reviewed these unit standards to better reflect the requirements of the outcomes listed in new qualifications.

A consultation was held in early 2016 where providers with consent to assess had the opportunity to give feedback via an online survey. This feedback was addressed where appropriate.

Main changes

- 14 unit standards were Category B reviews
- 13 unit standards were Category C reviews
- 26 new unit standards were developed
- Unit standards in the *Fruit Production* domain were reclassified into the *Production Horticulture* domain
- Unit standards in the *Viticulture* domain were replaced with unit standards in the *Production Horticulture* domain

Category C unit standards will expire at the end of December 2021

Impact on existing organisations with consent to assess

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	29844, 29829	3
Subfield	Horticulture	2	Standards	29844, 29829	3
Domain	Production Horticulture	2	Standard	29829	3
Domain	Fruit Production	2	Standards	29844	3
Domain	Fruit Production	3	Standards	830, 831, 832, 29822, 29844	3
Domain	Fruit Production	4	Standards	830, 831, 832, 29822, 29844	3
Domain	Viticulture	3	Standards	29823, 29834, 29845	3
Domain	Viticulture	4	Standards	29823, 29834, 29845	3
Domain	Viticulture	5	Standards	29823, 29834, 29845	3
Standard	794	3	Standard	29831	3
Standard	811	2	Standard	29844	3
Standard	19924	3	Standard	29823	3
Standard	22177	2	Standard	29829	3
Standard	22178	3	Standard	29829	3
Standard	23358	3	Standard	29837	3
Standard	20558	4	Standard	29843	3
Standard	20565	3	Standard	29836	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 > Horticulture > Fruit Production

Agriculture, Forestry and Fisheries > Horticulture > Production Horticulture

ID	Title	Level	Credit	Review Category
830	Train and prune fruit trees	4 3	5	B
831	Train and prune vine crops Train and prune young and mature vine crops	3	4 5	B
832	Prune and tie up brambles	3	5	B
775 29822	Artificially pollinate a kiwifruit crop Artificially pollinate tree or vine crops	3 3	2 2	C

ID	Title	Level	Credit	Review Category
21221	Stack and store fruit in a coolstore or other storage facility	2	5	C
811	Store fruit	2	3	C
29844	Stack and store produce in a coolstore or other storage facility	3	5	

Agriculture, Forestry and Fisheries > Horticulture > Viticulture

Agriculture, Forestry and Fisheries > Horticulture > Production Horticulture

ID	Title	Level	Credit	Review Category
19924	Carry out basic canopy maintenance in the vineyard	3	5	C
29823	Carry out canopy maintenance of trees or vines	3	5	
19929	Field graft grapevines	3	5	C
29834	Field graft and/or bud fruit trees or vines	3	5	
19942	Support mechanical grape harvesting operations	3	5	C
29845	Support mechanical crop harvesting	3	6	

Agriculture, Forestry and Fisheries > Horticulture > Production Horticulture

ID	Title	Level	Credit	Review Category
794	Control the greenhouse environment	3	5	C
29831	Demonstrate understanding of the functions of greenhouse environmental control methods for optimising plant growth	3	6	
22175	Demonstrate knowledge of soil properties and their effect on plant growth	3	10	B
	Demonstrate understanding of soil properties and their effect on plant growth		6	
22177	Demonstrate knowledge of the structure and function of plants	2	5	C
22178	Demonstrate knowledge of plant processes and plant life cycles	3	5	C
29829	Demonstrate understanding of plant structure, functions, and processes	3	5	
22179	Maintain a hydroponic system	3	5	B
	Maintain a hydroponic system and plants in the system			
22186	Select and harvest a horticulture crop	3	5	B
	Prepare, and harvest a horticulture crop by hand			
22189	Maintain an irrigation system used in horticulture	3	5	B
22193	Fertilise a selected horticulture area	3	5	B
23358	Stack and strap packed produce onto pallets	3	8	C
29837	Palletise produce and complete documentation	3	5	

ID	Title	Level	Credit	Review Category
23707	Demonstrate knowledge of workflow management in a postharvest operation	3	5	C
29832	Demonstrate understanding of workflow management in a horticulture operation	3	5	
29840	Pull out the crop and clean the greenhouse for crop change, and set up the new crop, support and irrigation	3	5	New
29821	Apply and monitor quality control procedures and input data in a post-harvest operation	3	8	New
29824	Carry out maturity testing of crop samples	3	5	New
29825	Collect samples for crop maturity testing	3	3	New
29828	Demonstrate understanding of horticulture product storage life and post-harvest treatments	3	5	New
29830	Demonstrate understanding of quality assurance standards, food safety regulations, and product compliance for a crop	3	5	New
29833	Grade produce to pre-determined criteria using a computerised system	3	10	New
29838	Plant and care for plants	3	5	New
29841	Recognise plant pests, diseases, and disorders of a horticulture crop	3	5	New
29842	Select and prepare consumables for continuous post-harvest packing, and update inventory	3	5	New
30073	Carry out manual thinning of tree or vine crops to optimise crop loading	3	5	New

Agriculture, Forestry and Fisheries > Horticulture > Nursery Production

ID	Title	Level	Credit	Review Category
20555	Prepare and use soil-less growing media	3	5	B
20557	Propagate plants from seed	4	10	B
	Select, collect and treat seed, and propagate plants from seed	3	3	
20558	Propagate plants by cuttings	4	10	C
29843	Select and prepare cutting material, and harden off rooted cuttings	3	3	
20562	Prune and train nursery plants	4 3	5	B
20565	Pack and dispatch pre-graded nursery products	3	5	C
29836	Pack and dispatch pre-graded nursery plant products and complete documentation	3	5	
20573	Grade nursery crops	3	10 3	B

ID	Title	Level	Credit	Review Category
27706	Demonstrate knowledge of laboratory micropropagation processes and exflask and acclimatise plants in a nursery Demonstrate understanding of laboratory micro-propagation processes, and exflask and acclimatise plants in a nursery	4 3	10 5	B
29826	Create and maintain garden retail displays	3	5	New
29835	Maintain and monitor nursery crops to marketable stage	3	5	New
29839	Prepare, operate and maintain specialist nursery machinery	3	5	New

Agriculture, Forestry and Fisheries > Horticulture > Fruit Production

ID	Title	Level	Credit	Review Category
21218	Operate and maintain powered orchard machinery	3	10 5	B

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

ID	Title	Level	Credit	Review Category
29827	Demonstrate understanding of agrichemicals, and safety when using agrichemicals	3	5	New