

**Fields Agriculture, Forestry and Fisheries
 Manufacturing**

Review of *Agriculture, Forestry and Fisheries*, and *Manufacturing* unit standards

Reviewed unit standards

Subfield	Domain	ID
Horticulture	Fruit Production	776, 804, 806, 834, 12394, 21214-21216, 21222
	Horticulture Production Management	3006
	Nursery Production	20563, 20567
	Production Horticulture	789, 809, 2809, 2814, 22180, 22181, 22184, 22187, 22190, 23360, 23706, 23708, 23710-23714
	Vegetable Production	25149, 25150
	Viticulture	19925-19928, 19933-19935, 19941, 21955, 21958
Primary Sector	Plant pest, weed, and disease control	27211, 27212, 27214

Revised unit standards

Subfield	Domain	ID
Primary Products Food Processing	Primary Products Food Processing - Core Skills	28622, 28641, 28644, 28645

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

Date new versions published

February 2017

Planned review date (reviewed standards)

December 2022

Planned review date (revised standards)

December 2020 (unchanged)

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.

Key stakeholders and organisations with consent to assess have had the opportunity to review these unit standards and offer feedback. This consultation was through an online survey in August 2016. All feedback was actioned where appropriate.

As part of the same development process, Primary ITO revised four standards. These standards were revised to update references to legislation, and to include post-harvest operations within primary products food processing.

Main changes

- Five new unit standards have been listed.
- 44 unit standards have been replaced with 16 unit standards.
- Four *Primary Products Food Processing* unit standards have been revised to ensure suitability for Post-Harvest Horticulture trainees.

Category C unit standards will expire at the end of December 2020

Impact on existing consents to assess

Current consent for			Consent extended to		
Nature of consent	Classification or ID	Level	Nature of consent	Classification or ID	Level
Subfield	Primary Sector	4-7	Standard	29890	4
Subfield	Horticulture	3	Standard	29888	4
Domain	Plant Pest, Weed, and Disease Control	4-7	Standard	29890	4
Domain	Fruit Production	4-7	Standards	29893, 29886, 29884, 29889, 29899	4
Domain	Viticulture	4-7	Standards	29893, 29889, 29900	4
Domain	Nursery Production	3-7	Standard	29888, 29895	4
Domain	Vegetable Production	4-7	Standard	29896	4
Domain	Horticulture Production Management	4-7	Standard	29885	4
Standard	27211	4	Standard	29890	4
Standard	27212	4	Standard	29890	4
Standard	27214	4	Standard	29890	4
Standard	776	4	Standard	29893	4
Standard	804	4	Standard	29893	4
Standard	834	4	Standard	29893	4
Standard	12394	4	Standard	29893	4
Standard	22184	4	Standard	29893	4
Standard	789	4	Standard	29886	4
Standard	2814	4	Standard	29884, 29899	4
Standard	3006	4	Standard	29885	4
Standard	22187	4	Standard	29889	4
Standard	20563	4	Standard	29888	4
Standard	20567	4	Standard	29895	4

Current consent for			Consent extended to		
Nature of consent	Classification or ID	Level	Nature of consent	Classification or ID	Level
Standard	22180	4	Standard	29894	4
Standard	22181	4	Standard	29894	4
Standard	22190	4	Standard	29903	4
Standard	23708	4	Standard	29883	4

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

Reviewed unit standards

All changes are in **bold**.

Agriculture, Forestry and Fisheries

ID	Subfield and Domain	Title	Level	Credit	Review Category
27211	Primary Sector > Plant Pest, Weed, and Disease Control	Recognise plant pests, diseases, and disorders, and beneficial organisms	4	6	C
27212	Primary Sector > Plant Pest, Weed, and Disease Control	Plan, implement, and evaluate a plant pest and disease control programme	4	12	C
27214	Primary Sector > Plant Pest, Weed, and Disease Control	Plan, implement, and evaluate a weed control programme	4	8	C
29890	Horticulture > Production Horticulture	Implement and monitor a horticulture crop protection plan	4	25	

Agriculture, Forestry and Fisheries > Horticulture

ID	Domain	Title	Level	Credit	Review Category
776	Fruit Production	Manage pollination of a fruit crop	4	5	C
804	Fruit Production	Apply post-harvest treatments to a fruit crop	4	5	C
834	Fruit Production	Graft mature fruit plants	4	10	C
12394	Fruit Production	Chemically thin fruit to optimise crop loading	4	5	C
19926	Viticulture	Coordinate hand pruning activities in the vineyard	4	10	C
19927	Viticulture	Coordinate manual canopy management activities in the vineyard	4	10	C
19933	Viticulture	Operate specialised canopy management equipment in the vineyard	4	10	C
19934	Viticulture	Operate a mechanical grape harvester	4	10	C
19935	Viticulture	Operate spreading and seeding equipment in the vineyard	4	10	C
21216	Fruit Production	Manage requirements for the production of a specified fruit crop for a year	4	20	C
21958	Viticulture	Estimate vineyard yield	4	5	C
22184	Production Horticulture	Select and install artificial shelter	4	5	C
29893	Production Horticulture	Implement and monitor fruit crop production activities	4	21	
789	Production Horticulture	Demonstrate knowledge of basic legal requirements affecting a horticulture business	4	7	C
21222	Fruit Production	Comply with industry quality assurance requirements for fruit production	4	10	C
29886	Production Horticulture	Demonstrate understanding of quality standards, and regulatory requirements for a horticulture crop	4	6	

ID	Domain	Title	Level	Credit	Review Category
806	Fruit Production	Calibrate and check fruit sizing equipment	4	3	C
2809	Production Horticulture	Supervise storage of harvested horticulture crops	4	5	C
2814	Production Horticulture	Apply quality control practices in horticulture product harvesting and packaging	4	5	C
23360	Production Horticulture	Implement a produce packaging system	4	5	C
23706	Production Horticulture	Demonstrate knowledge of inventory management and manage an inventory in a postharvest operation	4	12	C
23710	Production Horticulture	Demonstrate knowledge of technical requirements for produce in a postharvest operation	4	12	C
23712	Production Horticulture	Manage workflow to meet the requirements of a postharvest operation	4	5	C
23713	Production Horticulture	Implement technical requirements in a postharvest operation	4	12	C
29884	Production Horticulture	Demonstrate understanding of operations and continuous improvement in a post-harvest workplace	4	6	
29899	Production Horticulture	Implement and monitor post-harvest activities	4	21	
3006	Horticulture Production Management	Demonstrate knowledge of botany in horticulture activities	4	4	C
29885	Production Horticulture	Demonstrate understanding of plant biology in a production horticulture context	4	5	
23711	Production Horticulture	Develop and implement a product safety programme in a postharvest operation	4	12	C
23714	Production Horticulture	Demonstrate knowledge of a product safety programme in a postharvest operation	4	8	C
29892	Production Horticulture	Implement and monitor food safety procedures in a horticultural operation	4	15	

ID	Domain	Title	Level	Credit	Review Category
19925	Viticulture	Coordinate grape harvesting activities	4	10	C
21214	Fruit Production	Supervise fruit crop harvesting	4	10	C
21215	Fruit Production	Manage the harvest of a fruit crop	5	15	C
22187	Production Horticulture	Manage a crop harvest	4	15	C
29889	Production Horticulture	Implement and monitor a crop harvest plan in a horticulture workplace	4	10	
19928	Viticulture	Demonstrate knowledge of grapevine biology and physiology	5	10	C
19941	Viticulture	Implement a soil management program in the vineyard	5	10	C
21955	Viticulture	Demonstrate knowledge of frosts, and frost protection methods for viticulture	4	5	C
29900	Production Horticulture	Implement and monitor plant management techniques to optimise production	4	10	
20563	Nursery Production	Demonstrate knowledge of nursery production systems	3	6	C
29888	Production Horticulture	Demonstrate understanding of nursery production	4	8	
20567	Nursery Production	Produce a nursery crop	4	20	C
29895	Production Horticulture	Implement nursery crop production schedules and monitor nursery crops	4	10	
25149	Vegetable Production	Coordinate vegetable production activities	4	10	C
25150	Vegetable Production	Manage requirements for production of a specified outdoor vegetable crop	4	20	C
29896	Production Horticulture	Implement and monitor outdoor vegetable crop production activities	4	36	

Agriculture, Forestry and Fisheries > Horticulture > Production Horticulture

ID	Title	Level	Credit	Review Category
809	Use and maintain packhouse plant	4	5	C
29902	Supervise and monitor the operation of post-harvest equipment	4	10	
22180	Manage a greenhouse crop	4	20	C
22181	Layout, remove and clean support materials for planting in greenhouse production	4	5	C
29894	Implement and monitor indoor crop production activities	4	20	

ID	Title	Level	Credit	Review Category
22190	Operate an irrigation system used in horticulture	4	10	C
29903	Supervise irrigation in a horticulture growing environment	4	6	
23708	Design and conduct a workplace procedure review in a horticultural operation	4	8	C
29883	Assist with developing standard operating procedures for a horticulture workplace	4	10	
29887	Demonstrate understanding of greenhouse environmental control systems to maintain optimal conditions for plant growth	4	6	New
29891	Demonstrate understanding of environmental risk management and minimise negative environmental effects for horticulture	4	15	New
29897	Implement and monitor pack and dispatch in a nursery production workplace	4	20	New
29898	Implement plant propagation plans and monitor plant propagation	4	20	New
29901	Monitor, record, and report on production goals in a horticulture workplace	4	4	New

Revised unit standards

Manufacturing > Primary Products Food Processing > Primary Products Food Processing - Core Skills

ID	Title	Level	Credit
28622	Participate in a quality audit in a primary products food processing operation	4	10
28641	Coordinate health and safety practices and procedures in a primary products food processing operation	5	5
28644	Apply safe work practices in own work area in a primary products food processing operation	3	3
28645	Monitor the implementation of health and safety practices in a primary products food processing operation	4	5