

Field Agriculture, Forestry and Fisheries

Review of *Horticulture* unit standards

Subfield	Domain	ID
Horticulture	Amenity Horticulture	21031, 24648
	Forest Nursery	10942, 10945, 10950
	Nursery Production	20555, 20562, 20570, 20573, 27705-27708, 29492, 29826, 29835-29836, 29839, 29843
	Production Horticulture	29838

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

Date new versions published

April 2022

Planned review date

December 2026

Summary

The Primary ITO revised *Horticulture* unit standards to better reflect the requirements of the updated qualification graduate outcomes.

Level 3 Nursery Production unit standards were reviewed according to their planned review date. Further amendments suggested by industry to the selected unit standard were made to sure it was fit for purpose.

Consultation was carried out in August 2021 where consent to assess holders and stakeholders had the opportunity to give comment on a survey sent asking for feedback to amendments. This feedback was addressed where appropriate.

Main changes

- Guidance information and performance criteria were amended to ensure unit standards content remained fit for purpose.
- Titles were updated for some unit standards to better reflect outcomes.
- Unit standards 20057, 27705 and 29843 have had an increase in credits, to better reflect the time taken to achieve the specialised learning and assessment that is needed to achieve the outcome. As a result of consultation with industry and stakeholders, it was found that the original credits were insufficient to achieve the outcomes.
- Standard setting body details were updated to Muka Tangata People, Food and Fibre Workforce Development Council to reflect the change to standard setting responsibility from 4 October 2021.
- Unit standards were transferred from CMR 0032 to CMR 0052.

The last date for assessment of superseded versions of Category B unit standards is December 2024

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 > Amenity

ID	Title	Level	Credit	Review Category
21031	Identify ephemerals, annuals, herbaceous perennials, biennials, and bulbs and their use in amenity horticulture. Identify annuals, herbaceous perennials, biennials and bulbs and their use	3	3 5	B
24648	Identify the physical characteristics, and range of, plants used in amenity horticulture. Describe the physical characteristics, and range of, woody stemmed plants and their use	3	7 10	B

Agriculture, Forestry and Fisheries > Horticulture > Forest Nursery

ID	Title	Level	Credit	Review Category
10942	Identify, evaluate and secure tree seeds Identify and locate seed trees and collect tree seed	3	4 5	B
10945	Prepare land and make seed beds in a forest nursery	3	4 5	B
10950	Demonstrate knowledge of the annual production cycle of a number of tree crops in a forest nursery Describe the production and operation cycles of seedlings and cuttings in a forest nursery	3	4 10	B

Agriculture, Forestry and Fisheries > Horticulture > Nursery Production

ID	Title	Level	Credit	Review Category
20555	Prepare and use soil-less growing media Describe, prepare and use soil-less growing media	3	5	B
20557	Select, collect and treat seed, and propagate plants from seed Select, collect and treat seed, and produce seedlings for nursery crops	3	3 10	B
20562	Prune and train nursery plants	3	5	B
20570	Demonstrate knowledge of nursery growing media and soils Describe nursery growing media and soils	2	5	B
20573	Grade nursery crops Describe quality standards, and grade nursery crops	3	3	B
27705	Select, collect and prepare seeds for plant propagation purposes Describe, select, collect and prepare seeds for plant propagation purposes	3	5 8	B

ID	Title	Level	Credit	Review Category
27706	Demonstrate understanding of laboratory micro-propagation processes, and exflask and acclimatise plants in a nursery Describe laboratory micro-propagation processes, and exflask and acclimatise plants in a nursery	3	5	B
27707	Demonstrate knowledge of plant propagation by budding, grafting, layering and tissue culture Describe plant propagation by budding, grafting, tissue culture and layering	2	5	B
27708	Demonstrate knowledge of sexual and asexual plant propagation Describe sexual and asexual plant propagation and propagation methods	2	6	B
29492	Care for a nursery crop under close supervision Care for a nursery crop	2	5	B
29503	Prepare and dispatch pre-graded nursery plants under close supervision Prepare and dispatch pre-graded nursery plants	2	5	B
29826	Create and maintain garden retail displays	3	5	B
29835	Maintain and monitor nursery crops to marketable stage Describe growing requirements, and maintain and monitor nursery crops to specifications	3	5	B
29836	Pack and dispatch pre-graded nursery plant products and complete documentation	3	5	B
29839	Prepare, operate and maintain specialist nursery machinery	3	5	B
29843	Select and prepare cutting material, and harden off rooted cuttings	3	3 10	B

Agriculture, Forestry and Fisheries > Horticulture > Production Horticulture

ID	Title	Level	Credit	Review Category
29838	Plant and care for plants	3	5	B