

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

<b>Subfield</b>	<b>Domain</b>	<b>ID</b>
Horticulture	Production Horticulture	44, 50, 22176, 23704, 29883-29887, 29889-29894, 29896, 29899-29902, 30257
	Viticulture	21956

Muka Tangata Workforce Development Council has completed the review of the unit standards listed above.

**Date new versions published**

**January 2022**

**Planned review date**

**December 2026**

**Summary**

Muka Tangata Workforce Development Council reviewed *Horticulture* unit standards to better reflect the requirements of the updated qualification graduate outcomes.

Consultation was carried out in July and August 2021 where stakeholders, including organisations with consent to assess had the opportunity to give comment on the email sent asking for feedback to amendments. The feedback received were addressed where appropriate.

**Main changes**

- Unit standards were moved to the current template.
- Unit standards 44, 50 and 22176 were designated expiring and will not be replaced due low usage in the last two years, and no anticipated usage in the future.
- Unit standard 21956 level increased to level 4 with a reduction in credits to reflect the learning requirements.
- Credits were reduced for unit standards 29890, 29893, 29896 and 29899 to better reflect training durations.
- 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.

**The last date for assessment of superseded versions of Category B unit standards is December 2024**

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

**Impact on existing organisations with consent to assess**

<b>Current consent for</b>			<b>Consent extended to</b>		
<b>Nature of consent</b>	<b>Classification or ID</b>	<b>Level</b>	<b>Nature of consent</b>	<b>Classification or ID</b>	<b>Level</b>
Subfield	Horticulture	3-7	Standard	21956	4
Domain	Viticulture	3	Standard	21956	4

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

All changes are in **bold**.

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

## Agriculture, Forestry and Fisheries &gt; Horticulture &gt; Production Horticulture

ID	Title	Level	Credit	Review Category
44	Establish and maintain shelter	2	5	D
50	Prepare seedbeds and sow crops on a field scale	4	10	D
22176	Maintain horticultural property structures	2	5	D
23704	Write work instructions for a horticultural process <b>Write and validate work instructions for a horticultural process</b>	4	5	B
29883	Assist with developing standard operating procedures for a horticulture workplace <b>Develop standard operating procedures for a horticulture workplace</b>	4	10	B
29884	Demonstrate understanding of operations and continuous improvement in a post-harvest workplace <b>Describe post-harvest systems and continuous improvement in a post-harvest workplace</b>	4	6	B
29885	Demonstrate knowledge of plant biology in a production horticulture context <b>Describe plant biology in a production horticulture context</b>	4	5	B
29886	Demonstrate knowledge of quality standards and regulatory requirements for a horticulture crop <b>Describe quality standards and regulatory requirements for a horticulture crop</b>	4	6	B
29887	Demonstrate understanding of greenhouse environmental control systems to maintain optimal conditions for plant growth <b>Demonstrate knowledge of greenhouse environmental control systems to maintain optimal conditions for plant growth</b>	4	6	B
29889	Implement and monitor a crop harvest plan in a horticulture workplace	4	10	B
29890	Implement and monitor a horticulture crop protection plan	4	25 20	B
29891	Demonstrate understanding of environmental risk management and minimise negative environmental effects for horticulture <b>Demonstrate knowledge of environmental risk management and minimise negative environmental effects for horticulture</b>	4	15	B
29892	Implement and monitor food safety procedures in a horticultural operation <b>Describe, implement and monitor food safety procedures in a horticultural operation</b>	4	15	B
29893	Implement and monitor fruit crop production activities	4	21 20	B
29894	Implement and monitor indoor crop production activities	4	20	B

ID	Title	Level	Credit	Review Category
29896	Implement and monitor vegetable outdoor crop production activities <b>Implement and monitor outdoor crop production activities</b>	4	36 15	B
29899	Implement and monitor post-harvest activities	4	21 20	B
29900	Implement and monitor plant management techniques to optimise production <b>Implement and monitor plant management techniques in a production horticulture workplace to optimise production</b>	4	10	B
29901	Monitor, record, and report on production goals in a horticulture workplace	4	4	B
29902	Supervise and monitor the operation of post-harvest equipment	4	10	B
30257	Demonstrate understanding of sustainable soil management practices for a horticulture site <b>Describe sustainable soil management practices for a horticulture site</b>	4	5	B
32900	<b>Describe frosts, and frost protection methods for a horticulture operation</b>	4	5	New
32901	<b>Describe organic and biodynamic practices, certification requirements, and practices for a horticulture operation</b>	4	5	New
32903	<b>Demonstrate and apply knowledge of water conservation and use in a horticulture operation</b>	4	5	New

## Agriculture, Forestry and Fisheries &gt; Horticulture &gt; Viticulture

ID	Title	Level	Credit	Review Category
21956	Demonstrate knowledge of grapevine physiology, morphology, and phenology <b>Describe grapevine physiology, morphology, and phenology</b>	3 4	10 5	B
32902	<b>Describe and monitor grapevine health, and implement control measures</b>	4	15	New
32904	<b>Implement and monitor wine growing activities to achieve grape quality specifications</b>	4	15	New
32905	<b>Monitor implementation and assess wine growing techniques</b>	4	10	New