

<b>Title</b>	<b>Describe horticulture product storage life and post-harvest treatments</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able to: describe the relationship between post-harvest physiology of plant tissue, and crop storage and shelf life characteristics; post-harvest treatments used in horticulture production; and storage methods for horticulture products.
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<b>Classification</b>	Horticulture > Production Horticulture
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Legislation relevant to this unit standard includes but is not limited to:
  - Health and Safety at Work Act 2015; and any subsequent amendments.
- 2 Definition  
*Workplace procedures* refer to policies and procedures on safety, operation, and production set down by the employer or host organisation for the use of post-harvest treatments.
- 3 Examples of treatments include – temperature treatments, atmospheres, physical applications, coatings, produce protectants.

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### Outcomes and performance criteria

#### Outcome 1

Describe the relationship between post-harvest physiology of plant tissue, and crop storage and shelf life characteristics.

#### Performance criteria

- 1.1 Describe plant tissues and cell metabolism after harvest in terms of the physiological changes that occur.  
  
Range evidence of five physiological changes is required.
- 1.2 Describe post-harvest changes to plant tissue and cell metabolism in terms of its implications for crop storage and shelf life.

**Outcome 2**

Describe post-harvest treatments used in horticulture production.

Range evidence of two post-harvest treatments is required.

**Performance criteria**

- 2.1 Describe the safe and effective use of post-harvest treatments in terms of the procedures and/or techniques used.
- 2.2 Describe post-harvest treatments in terms of their timing for use.
- 2.3 Describe the physiological responses of the crop to post-harvest treatments in terms of the implications for storage and shelf life.

**Outcome 3**

Describe storage methods for horticulture products.

**Performance criteria**

- 3.1 Describe storage methods in terms of their use for extending the life of a harvested product.

Range evidence of two storage methods is required.

<b>Planned review date</b>	31 December 2026
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	19 January 2017	31 December 2024
Review	2	27 January 2022	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0052
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

**Comments on this unit standard**

Please contact the Muka Tangata - People, Food and Fibre Workforce Development Council [qualifications@mukatangata.nz](mailto:qualifications@mukatangata.nz) if you wish to suggest changes to the content of this unit standard.