

<b>Title</b>	<b>Develop a post-harvest operation plan, and manage its implementation and review</b>		
<b>Level</b>	<b>5</b>	<b>Credits</b>	<b>20</b>

<b>Purpose</b>	People credited with this unit standard are able to: develop a post-harvest operation plan to achieve operation goals and standards for a crop; manage implementation of a post-harvest operation plan; and review the post-harvest operation plan and make recommendations for improvement.
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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 are not limited to:
  - Health and Safety at Work Act 2015; and any subsequent amendment.
- 2 All evidence presented in this unit standard must be in accordance with workplace procedures.
- 3 The regional and territorial authorities throughout New Zealand may have differing regulatory requirements. Any plan developed in Outcome 1 must comply with regional or territorial regulatory requirements.
- 4 Definitions
 

*Continuous improvement* methods and tools may include the application of a flow chart, check sheet, control chart, histogram, fishbone diagram, Pareto chart, root cause, sampling, A4 story board, 5 Whys technique, PDCA (plan-do-check-act) cycle, The Five Ss method, value stream mapping.

*Goals* are statements which provide direction and purpose to an enterprise. Goals must be specific, measurable, attainable, realistic, and time based.

*Post-harvest operation* refers to separate operational areas within the post-harvest enterprise (e.g. cool store, quality control, packing line).

*Post-harvest operation plan* refers to a document detailing steps for an aspect of the operation. It must be consistent with the regulatory requirements and quality standards of the target customer and with health and safety legislation.

*Regulatory compliance* refers to local, regional, or territorial authority requirements in which the property or facility resides.

*Standards* may refer to requirements laid down in quality assurance documentation, industry standards, or workplace procedures.

*Workplace procedures* refer to verbal or written instructions to staff on procedures for implementing and monitoring crop plant management techniques. Workplace procedures must comply with health and safety legislation and be consistent with the workplace health and safety plan

- 5 Crop refers to any commercial horticulture crop from the following sectors: fruit, vegetable.

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## Outcomes and performance criteria

### Outcome 1

Develop a post-harvest operation plan to achieve operation goals and standards for a crop.

#### Performance criteria

- 1.1 Identify post-harvest goals and standards for a crop.
- 1.2 Identify procedures to monitor post-harvest activities against goals and standards.
- 1.3 Identify appropriate post-harvest materials, equipment and machinery required to meet operation goals, and plan for their readiness and availability.
- 1.4 Identify seasonal and/or permanent staff required for duration of the post-harvest operation and their training requirements.
- 1.5 Specify post-harvest activities and their timing to meet operational goals.
- 1.6 Identify contingencies that may affect operational activities.
- Range contingencies may include but are not limited to – equipment breakdown, harvest delays, storage capacity, labour availability, crop maturity, consumables; evidence of three contingencies is required.
- 1.7 Identify regulatory compliance requirements that impact on the post-harvest operation.
- 1.8 Plan to identify continuous improvement opportunities using methods and/or tools for production.
- Range evidence of four methods and/or tools – of which one must focus on reducing waste to improve the post-harvest operation is required.

### Outcome 2

Manage implementation of a post-harvest operation plan.

**Performance criteria**

- 2.1 Monitor post-harvest progress against the plan.
- 2.2 Manage contingencies.
- 2.3 Monitor achievement of goals and standards.
- 2.4 Manage procedures to rectify non-conformance with standards.
- 2.5 Apply continuous improvement methods and/or tools in the implementation of the post-harvest operation plan.

**Outcome 3**

Review the post-harvest operation plan and make recommendations for improvement.

**Performance criteria**

- 3.1 Analyse the post-harvest operation plan against achievement of goals and standards.
- 3.2 Make recommendations for improvements to the post-harvest operation plan.
- 3.3 Apply continuous improvement methods and/or tools in the review of the post-harvest operation.

<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	16 February 2017	31 December 2023
Review	2	16 December 2021	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 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.