

Select and apply postharvest treatments to vegetable crops

Level 4

Credits 5

Purpose This unit standard is for people working in any kind of vegetable production. People credited with this unit standard are able to: describe postharvest treatments needed for a specified vegetable crop; describe and select postharvest treatments; apply postharvest treatments; and maintain workplace records.

Subfield Horticulture

Domain Vegetable Production

Status Registered

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Entry information Open.

Accreditation Evaluation of documentation and visit by NZQA, industry and teaching professional in the same field from another provider.

Standard setting body (SSB) Primary Industry Training Organisation

Accreditation and Moderation Action Plan (AMAP) reference 0032

This AMAP can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Special notes

- 1 *Workplace procedures* refer to oral or written instructions to staff on procedures for the worksite and equipment.
- 2 Legislation relevant to this unit standard includes but is not limited to the Health and Safety in Employment Act 1992; Employment Relations Act 2000; Resource Management Act 1991; Privacy Act 1993; Hazardous Substances and New Organism Act 1996 and related regulations; and Occupational Safety and Health Approved Codes of Practice.

- 3 *Treatments* may include but are not limited to – temperature treatments, atmospheres, physical applications, coatings, produce protectants.
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Elements and performance criteria

Element 1

Describe postharvest treatments needed for a specified vegetable crop.

Performance criteria

- 1.1 Materials and equipment needed for the postharvest treatments are described in terms of their functions.
- 1.2 Precautions or techniques needed to safely and effectively handle each material are described so that the work is done with no harm to health or product and to maximise the effectiveness of the treatments.
- 1.3 Timing constraints are described for each specified treatment in accordance with workplace procedures.
- 1.4 Specialist postharvest treatment processes are described relative to a vegetable crop in accordance with workplace procedures.

Element 2

Describe and select postharvest treatments.

Performance criteria

- 2.1 Processes within the harvested crop parts are described in terms of shelf life and storage characteristics.
- 2.2 Modes of action are described for the chosen treatment in terms of their effects in reducing deterioration.
- 2.3 Harvested plant parts' response to the chosen postharvest treatments are described in terms of shelf life and storage characteristics.
- 2.4 Postharvest treatments are selected for a vegetable crop so that the treatments minimise deterioration of the crop parts.

Element 3

Apply postharvest treatments.

Performance criteria

- 3.1 The equipment and materials to apply the postharvest treatment are prepared in accordance with workplace procedures.

- 3.2 The crop is prepared for postharvest treatment in accordance with workplace procedures.
- 3.3 Postharvest treatments are applied in accordance with workplace procedures and crop requirements.
- 3.4 The crop is left ready for the next process in accordance with workplace procedures.
- 3.5 The equipment is left in a hygienic condition for when it is next required in accordance with workplace procedures.
- Range disease risk, health and safety risk.
- 3.6 Disposal of excess materials is carried out in accordance with workplace procedures.
- Range may include but is not limited to – legislation for disposal of agrichemicals, container management and storage.

Element 4

Maintain workplace records.

Performance criteria

- 4.1 Workplace information is recorded and/or stored according to workplace procedures.
- Range workplace information may include but is not limited to – standard operating procedures; specifications; production schedules/instructions; work notes; Material Safety Data Sheets; manufacturers' instructions; verbal direction from manager, supervisor or senior operator.

Please note

Providers must be accredited by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact the Primary Industry Training Organisation <http://www.primaryito.ac.nz> if you wish to suggest changes to the content of this unit standard.