

Title	Manage requirements for production of a specified outdoor vegetable crop		
Level	4	Credits	20

Purpose	This unit standard is for people working in vegetable production. People credited with this unit standard are able to: plan the production of a specified vegetable crop; manage the production of a specified vegetable crop; and manage the harvest and transportation of the crop from the workplace for further processing or sale.
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Classification	Horticulture > Vegetable Production
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Available grade	Achieved
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Entry information	
Recommended skills and knowledge	Open, but it is recommended that the candidate have prior experience in all aspects of outdoor vegetable production before seeking credit for this unit standard.

Explanatory notes

- 1 *Workplace procedures* refer to oral or written instructions to staff on procedures for the worksite and equipment.
- 2 *Standards* refer to requirements laid down in quality assurance documentation and industry standards as supplied by industry body, agent or exporting company.
- 3 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.
- 4 Candidates must keep records over a ten month period and evidence needs to be shown that daily production data (eg. nutrient levels, maintenance, staff working areas, irrigation, weather) is recorded during the growing of the crop.
- 5 It is intended that at least one vegetable crop is produced over a year to the point of dispatch to a buyer. Alternatively, multiple crops produced in the same areas over a one year period could be used for this unit standard. The area of vegetable production should be a minimum of one hectare in area, (10,000 square metres).

- 6 Although the candidate should be aware of the processes they should not be expected to make decisions such as the crop to be grown, the area and volume to be produced, or the Market for the crop. However the candidate will use this information while planning the crop production.
- 7 Crops include any outdoor horticultural vegetable crop. For those working with a greenhouse crop, Unit 22180 *Manage a greenhouse crop* would be more appropriate.

Outcomes and evidence requirements

Outcome 1

Plan the production of a specified vegetable crop.

Evidence requirements

- 1.1 Production schedule is prepared in terms of the enterprise production requirements.
- Range cultivar/s identified, numbers of plants, estimated crop, market to be supplied, estimated harvest date, key production process dates, labour demands, resource scheduling.
- 1.2 Crop requirements are calculated in terms of the materials, labour, equipment, and resources in accordance with workplace procedures.
- 1.3 Crop quality requirements are established in accordance with market demands.
- 1.4 Potential risks are identified and allowed for in the plan.
- Range may include but is not limited to – climatic risk, financial risk, market changes.
- 1.5 Performance measures are incorporated into the plan to monitor progress against schedule.
- Range performance measures may include but are not limited to – quantity, timing, plant health, cost, labour efficiencies.

Outcome 2

Manage the production of a specified vegetable crop.

Evidence requirements

- 2.1 Crop production tasks are organised to ensure that they are carried out according with the plan.
- 2.2 Crop and production plans are monitored throughout the season to ensure that the crop production and quality standards are met.

- 2.3 Crop health is monitored and prevention, control, or correction methods are carried out according to workplace procedures.
- Range pests, disease, physiological disorders.
- 2.4 Materials tools, equipment, and machinery appropriate to the task are selected and used during the production period.
- 2.5 Cultural techniques appropriate to the crop and workplace requirements are selected and applied during the production period.
- Range cultural techniques may include but are not limited to – cultivation, nutrient applications, irrigation, pollination, thinning.
- 2.6 Any variations from the plan are identified and appropriate courses of action are implemented to alleviate any shortcomings in the plan.
- 2.7 Any remedial action undertaken is documented and reported to management in accordance with workplace practices.

Outcome 3

Manage the harvest and transportation of the crop from the workplace for further processing or sale.

Evidence requirements

- 3.1 Crop maturity is determined in accordance with industry standards and workplace procedures.
- Range may include but is not limited to – crop appearance, specifications, aids or devices to measure maturity and external assessments carried out by industry specialists.
- 3.2 Crop selected for harvesting conforms to market requirements.
- 3.3 Harvesting resources are planned and coordinated in a sequential, timely and effective manner, in consultation with a supervisor.
- 3.4 Harvesting of the crop is completed in accordance with workplace procedures.
- 3.5 Crop is transported from the field to the processing or storage area in accordance with workplace procedures.
- Range may include but is not limited to – labelling, handling practices, storage conditions, transportation standards.
- 3.6 Harvesting records are completed in accordance with workplace procedures.

Replacement information	This unit standard and unit standard 25149 were replaced by unit standard 29896.
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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	17 October 2008	31 December 2020
Review	2	16 February 2017	31 December 2020

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

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR 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.

This unit standard is expiring