Title	Demonstrate and apply knowledge of water conservation and use in a horticulture operation		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to demonstrate and apply knowledge of water conservation and use in a horticulture operation.
	norticulture operation.

Classification	Horticulture > Production Horticulture
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Available grade	Achieved
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Guidance Information

- 1 Legislation and regulations relevant to this unit standard include but are not limited to:
 - Health and Safety at Work Act 2015;
 - Local regional and territorial authority regulations requirements; and any subsequent amendments.
- 2 Definitions

Workplace procedures refer to verbal or written instructions to staff on procedures for the worksite and equipment. Workplace procedures must comply with health and safety legislation and be consistent with the workplace health and safety plan.

Outcomes and performance criteria

Outcome 1

Demonstrate and apply knowledge of water conservation and use in a horticulture operation.

Performance criteria

1.1 Describe water conservation methods used in the horticulture sector in terms of improving water availability for plant production.

Range

methods may include but are not limited to – closed system, storage, water placement, irrigation technology, water meters, rainwater harvesting, dams, cover crops, cultivation techniques, soil organic matter, crop rotation, mulches; evidence of five methods is required.

1.2 Describe environmental risks associated with the misuse of water in terms of water resources.

Range risks include are not limited to – evapotranspiration, plant microclimates, surface or ground water resources.

1.3 Describe local authority guidelines in terms of water conservation and/or use for plant production.

Range evidence of two guidelines is required.

1.4 Describe activities involved with irrigation management in terms of improving irrigation efficiency.

Range activities include but are not limited to – routine maintenance, flushing lines, filter cleaning.

- 1.5 Estimate plant water requirements for a horticulture crop in accordance with workplace procedures.
- 1.6 Apply techniques to measure water availability in the soil, growing media or plant tissue in accordance with workplace procedures.

Range evidence of one technique is required.

1.7 Record water events for a horticulture crop in accordance with workplace procedures.

Range evidence of rainfall and/or irrigation is required.

1.8 Identify opportunities to improve water conservation and/or use in a horticulture operation in accordance with workplace procedures.

Range evidence of two opportunities is required.

Planned review date	31 December 2026

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 January 2022	N/A

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

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Comments on this unit standard

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