

Title	Demonstrate knowledge of a horticultural irrigation system		
Level	3	Credits	5

Purpose	People credited with this unit standard are able to: describe the use of irrigation materials and install a system for horticultural irrigation; and describe features of an electric circuit and solenoid switching system, and install automatic controls.
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Classification	Horticulture > Production Horticulture
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Available grade	Achieved
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Guidance Information

- 1 Legislation relevant to this unit standard includes but is not limited to the Health and Safety at Work Act 2015.
- 2 All practical evidence presented in this unit standard must be in accordance with workplace procedures.
- 3 A *low pressure system* is made up of headers, laterals, low pressure emitters, valves, filters and joiners. A low pressure system is designed to throw water for no more than about a metre, if at all.
- 4 A *high pressure system* is made up of headers, threaded fittings, laterals, valves, emitters and filters designed to withstand pressures needed to throw water several metres or more.
- 5 Definition
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

Describe the use of irrigation materials and install a system for horticultural irrigation.

Range evidence of a low pressure, or high pressure system is required.

Performance criteria

- 1.1 Describe the use of irrigation materials in terms of installing irrigation systems.
- Range materials may include but are not limited to – headers, laterals, emitters, valves, filters, joiners, threaded fittings; evidence of five materials is required.
- 1.2 Use selected tools and equipment needed for installing irrigation systems according to manufacturer's instructions.
- 1.3 Install an irrigation system according to manufacturer's instructions.
- 1.4 Test and inspect an irrigation system for leaks and performance, and report any problems to supervisor.

Outcome 2

Describe features of an electric circuit and solenoid switching system, and install automatic controls.

Performance criteria

- 2.1 Describe features of an electric circuit and solenoid switching system in terms of an automatic control.
- 2.2 Run out and install electric wires, and connect solenoids so that the system can be automatically controlled.
- 2.3 Test automatic control of irrigation system and report any problems to supervisor.

Planned review date	31 December 2027
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	28 November 1997	31 December 2023
Revision	2	19 July 2001	31 December 2023
Review	3	25 July 2006	31 December 2023
Review	4	30 June 2022	N/A

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>.

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.