

Title	Install an agricultural or horticultural irrigation system		
Level	3	Credits	10

Purpose	People credited with this unit standard are able to: select equipment, machinery, and materials for installing the irrigation system; install the irrigation system; and carry out post-operational procedures.
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Classification	Rural Contracting > Agricultural Contracting
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Available grade	Achieved
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Guidance Information

- The following legislation and requirements apply to this unit standard:
Health and Safety in Employment Act 1992;
Resource Management Act 1991;
Territorial authority and/or regional council (TA/RC) requirements;
Guidelines for the Provision of Safety, Health and Accommodation in Agriculture (Wellington: Department of Labour, 1996); and
Approved Code of Practice for Excavation and Shafts for Foundations (Wellington: Department of Labour, 1996); both available from
<http://www.osh.govt.nz/order/catalogue>;
Operator Safety Manual for Earthmoving Machinery, 2006, Connexis Infrastructure ITO;
Manufacturer's instructions.

Any legislation or other requirement superseding any of the above will apply, pending review of this unit standard.

- Assessment against this unit standard must be based on evidence from a workplace context.
- Where applicable, personal protective equipment, appropriate for the work being carried out, is to be selected and worn in accordance with company requirements and manufacturer's instructions.
- Definitions
Company requirements refer to all policies, procedures, and methodologies the candidate's organisation has in place including but not limited to those relating to health, safety, environment, quality, and operations.
Manufacturer's instructions may include specifications, installation, handling, use, and maintenance instructions and safety data sheets.

Outcomes and performance criteria

Outcome 1

Select equipment, machinery, and materials for installing the irrigation system.

Performance criteria

- 1.1 Equipment, machinery, and hand tools chosen are appropriate for installing an irrigation system.
- Range equipment and machinery – excavator, trencher, tractor, backfill blade.
- 1.2 Materials selected meet volume, working pressure, and working head standards in accordance with the system plan.
- Range includes but is not limited to – pipes, joints, tanks, pumps.

Outcome 2

Install the irrigation system.

Performance criteria

- 2.1 Excavation is to predetermined alignment, depth, width, and level in accordance with the system plan.
- 2.2 Pipes are laid and connected in accordance with the system plan.
- 2.3 Irrigation nozzles or hydrants are positioned and connected in accordance with the system plan.
- 2.4 The pump system is installed in accordance with the system plan.
- 2.5 Header tanks are placed on level sites in accordance with the system plan.
- 2.6 Site is reinstated in accordance with client requirements.

Outcome 3

Carry out post-operational procedures.

Performance criteria

- 3.1 Shut-down procedures are carried out in accordance with manufacturer's instructions.
- 3.2 Equipment is cleaned and, as required, treated in accordance with manufacturer's instructions and/or company requirements.

- 3.3 Lubrication is carried out in accordance with manufacturer's instructions.
- 3.4 Any damage or faults including any missing, bent, broken, or loose parts are identified and are repaired, replaced, or reported in accordance with manufacturer's instructions and/or company requirements.
- 3.5 Equipment and machinery are stored in accordance with company requirements.
- 3.6 Documentation for the operation is completed in accordance with company and client requirements, and is stored in accordance with company requirements.

Replacement information	This unit standard replaced unit standard 6263.
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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	31 October 2002	31 December 2021
Review	2	25 June 2007	31 December 2021
Review	3	26 March 2020	31 December 2021

Consent and Moderation Requirements (CMR) reference	0101
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.