

Title	Construct, energise, and test a permanent electric fence		
Level	3	Credits	10

Purpose	People credited with this unit standard are able to, for a permanent electric fence: install end assemblies and primary posts; select, run out, and set line wires; pre-tension, tension, and terminate line wires; install insulators and tidy worksite; install electric fence components; and use and interpret a volt meter reading.
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Classification	Agriculture > Fencing
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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 evidence presented in this unit standard must be in accordance with workplace procedures.
- 3 Definition
Workplace procedures refer to policies and procedures on safety, operation, and production set down by the employer or host organisation for a fencing activity and includes manufacturer's guidelines for use of equipment and materials.

Outcomes and performance criteria

Outcome 1

Install end assemblies and primary posts for a permanent electric fence.

Performance criteria

- 1.1 Install end assemblies in accordance with fence height.
- 1.2 Select and install suitable breast plate or stay structure for soil type.
- 1.3 Identify primary and intermediate post positions in relation to terrain and fence design.
- 1.4 Install primary posts in line, in accordance with fence design and bisecting contour angle.

- 1.5 Install all posts in accordance with fence design height, firm ramming, and bisecting contour angle.

Outcome 2

Select, run out, and set line wires for a permanent electric fence.

Performance criteria

- 2.1 Select wire size and type according to fence design.
- 2.2 Draw wires from wire dispenser along entire fence without kinking or damage to galvanising.
- 2.3 Position and attach wire to primary posts according to fence design.

Outcome 3

Pre-tension, tension, and terminate line wires in a permanent electric fence.

Performance criteria

- 3.1 Pre-tension wire on face side of fence and without damaging wire.
- 3.2 Join or tie off wire.
- 3.3 Set wire tension uniformly.
- 3.4 Tension and terminate wires.
- 3.5 Retain tension.

Outcome 4

Install insulators in a permanent electric fence and tidy work site.

Performance criteria

- 4.1 Install end insulators.
- 4.2 Install post insulators.
- 4.3 Tidy work site after installation by removing all waste materials.

Outcome 5

Install electric fence components.

Performance criteria

5.1 Install components without damage.

Range components may include but are not limited to – cut-off switches, line clamps, under-gate cable, electric gate, lighting diverter; evidence of two components is required.

5.2 Install components with consideration for the health, safety, and welfare of people and animals.

Outcome 6

Use and interpret a voltmeter reading for an electric fence.

Performance criteria

6.1 Use a voltmeter to obtain a true reading.

6.2 Interpret a voltmeter reading in terms of stock control and energiser output.

6.3 Report voltage reading to supervisor.

Planned review date	31 December 2025
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 September 1993	31 December 2023
Review	2	28 February 1997	31 December 2023
Review	3	25 June 2002	31 December 2023
Review	4	22 August 2008	31 December 2023
Review	5	29 April 2021	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 the Primary Industry Training Organisation standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.