

<b>Title</b>	<b>Describe electric fencing components and systems</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able to describe: electric fencing components; electric fence features, advantages and suitability of wire types for animal containment; power sources and the performance characteristics of different types of electric fence energisers; and safety considerations for electric fence earthing system installations.
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<b>Classification</b>	Agriculture > Fencing
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<b>Available grade</b>	Achieved
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### Guidance Information

Product use manuals are available from manufacturers and should be consulted in all teaching and training situations.

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### Outcomes and performance criteria

#### Outcome 1

Describe electric fencing components.

#### Performance criteria

1.1 Describe insulator types in terms of their function.

Range insulator types may include but are not limited to – wooden and steel post, end, insultube, thread through; evidence of two types is required.

1.2 Describe electric fence support posts in terms of their types and function.

Range support posts may include but are not limited to – fibreglass rod, plastic, steel standard, timber post; evidence of two support posts is required.

1.3 Describe sundry components in terms of their use.

Range components include but are not limited to – cut-off switches, line clamps, under-gate cable, outriggers, insulated droppers, earth pegs, energizer.

## Outcome 2

Describe electric fence features, advantages and suitability of wire types for animal containment.

### Performance criteria

2.1 Describe electric fences in terms of their features that contribute to livestock containment.

Range features include but are not limited to – physical, psychological.

2.2 Describe electric fences in terms of their advantages.

Range advantages include but are not limited to – cost, ease of construction.

2.3 Describe electric fences in terms of the suitability of wire types for animal containment purposes.

Range wire types may include but are not limited to – high tensile, aluminium, 4mm mild, netting; evidence of two wire types is required.

## Outcome 3

Describe the power sources and the performance characteristics of different types of electric fence energisers.

### Performance criteria

3.1 Describe power sources in terms of performance.

Range power sources include but are not limited to – solar, battery, mains.

3.2 Describe the selection of an electric fence energiser in terms of features to consider to containing livestock.

Range features may include but are not limited to – livestock type, energiser stored joules, distance rating, power source for energiser, compensate for power loss; evidence of three features is required.

## Outcome 4

Describe safety considerations for electric fence earthing system installations.

**Performance criteria**

- 4.1 Describe prevention methods for radio and telephone interference and placement of caution signs in terms of electric fence earthing system installations.
- 4.2 Describe safety protocols of electric fence earthing system installations in accordance with manufacturer's installation instructions.
- Range protocols include but are not limited to – earthing materials, placement of pegs in relation to mains earth, wire type.

<b>Planned review date</b>	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
Revision	6	25 November 2021	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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](mailto:qualifications@mukatangata.nz) if you wish to suggest changes to the content of this unit standard.