

Title	Describe fencing end assemblies and explain reasons for structure failure		
Level	3	Credits	3

Purpose	People credited with this unit standard are able to describe: the function of end assemblies; diagonal end assembly components; horizontal end assembly components; breastplate end assembly components; and tie back assembly components; and explain reasons for structure failure.
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Classification	Agriculture > Fencing
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Available grade	Achieved
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Guidance Information

- 1 Product use manuals are available from manufacturers and should be consulted in all training situations.
- 2 Definition
Kick block – a piece of timber located at the bottom of the strainer to counteract the pivot action of the end assembly at final loading.

Outcomes and performance criteria

Outcome 1

Describe the function of end assemblies.

Range diagonal, horizontal, breast plate, tie back.

Performance criteria

- 1.1 Describe end assembly function in terms of fence tension and stability.
- 1.2 Describe end assembly construction in terms of the influence of soil type and contour.

Outcome 2

Describe diagonal end assembly components and explain reasons for structure failure.

Performance criteria

2.1 Describe diagonal end assembly components in terms of the type and direction of loading for each component.

Range components include stay, stay block, foots, strainers.

2.2 Explain reasons for structure failures in terms of diagonal end assembly stability.

Range failures may include but are not limited to – strainer post lifted, breast block bent or pushed through the ground, strainer post rotating, buckled stay; evidence of two failures is required.

Outcome 3

Describe horizontal end assembly components and explain a reason for structure failure.

Performance criteria

3.1 Describe horizontal end assembly components in terms of the type and direction of loading for each component.

Range components include – compression bar, brace wires, strainers.

3.2 Explain a reason for structure failure in terms of horizontal end assembly stability.

Range failure may include but is not limited to – strainer post moved with resulting gap behind, diagonal brace wire stretched, buckled compression bar, rotation of strainer; evidence of one failure is required.

Outcome 4

Describe breastplate end assembly components and explain a reason for structure failure.

Performance criteria

4.1 Describe breastplate end assembly components in terms of the type and direction of loading for each component.

Range components include strainer, breastblock, kick block;

4.2 Explain a reason for structure failure in terms of breastplate end assembly stability.

Range failure may include but is not limited to – breast block bent or pushed through the ground, strainer post rotating; evidence of one failure is required.

Outcome 5

Describe tie back assembly components and explain a reason for structure failure.

Performance criteria

5.1 Describe tie back assembly components in terms of the type and direction of loading for each component.

Range components include – dead man, strainer, brace wire.

5.2 Explain a reason for structure failure in terms of assembly stability.

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	25 June 2002	31 December 2023
Review	2	22 August 2008	31 December 2023
Review	3	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.