

Title	Prepare and sow outdoor seedbeds manually		
Level	1	Credits	5

Purpose	<p>This unit standard is intended for people working, or intending to work, in any kind of horticulture.</p> <p>People credited with this unit standard are able to: cultivate soil using hand tools; recognise sources of fertiliser, manure, lime, and apply fertiliser or lime to seedbed; prepare a seedbed by hand for sowing; sow seed by hand in outdoor seedbeds; maintain and record seedbed maintenance to seedling stage of growth.</p>
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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:
 - Health and Safety at Work Act 2015; and any subsequent amendments.
- 2 All evidence presented in this unit standard must be in accordance with workplace procedures.
- 3 *Workplace procedures* refer to verbal or written instructions to staff on procedures for the worksite and equipment.
- 4 The minimum seedbed size should be three square metres.

Outcomes and performance criteria

Outcome 1

Cultivate soil using hand tools.

Performance criteria

- 1.1 Select and safely use tools suitable for the task.

Range tools may include but is not limited to – spade, fork, rake, push hoe, Dutch hoe.
- 1.2 Use single spit digging in accordance with the soil characteristics.

- 1.3 Maintain consistent cultivation depth and tilth over the cultivated area.
- 1.4 Aerate soil suitable for the soil characteristics and seed to be used.
- 1.5 Apply an even surface over the cultivated area.
- 1.6 Clean tools and store after use.
- 1.7 Incorporate organic material uniformly throughout the total area.

Range organic material may include but is not limited to – organic matter, manures;
evidence of one organic material is required.

Outcome 2

Recognise sources of fertiliser, manure, lime, and apply fertiliser or lime to seedbed.

Performance criteria

- 2.1 Recognise sources of fertiliser, manure, and lime.

Range sources may include but is not limited to – lime, sulphate of ammonia, sulphate of potash, superphosphate, a compound fertiliser, organic fertiliser, blood and bone, pelletised manure;
evidence of lime, manure and three fertiliser types are required.
- 2.2 Measure out fertiliser or lime accurately.
- 2.3 Spread fertiliser or lime evenly over the specified area at the recommended rate of application.
- 2.4 Store equipment and materials after use.

Outcome 3

Prepare a seedbed by hand for sowing.

Performance criteria

- 3.1 Clear seedbed of weeds and surface trash, which are disposed of.
- 3.2 Prepare even soil tilth suitable to intended seed and crop.
- 3.3 Aerate soil and apply water to enhance seedbed moisture levels for seed germination.
- 3.4 Contour seedbed.

Outcome 4

Sow seed by hand in outdoor seedbeds.

Performance criteria

4.1 Sow seed by hand in outdoor seedbeds.

Range sowing method include broadcast seed, drill seed;
evidence of one sowing method is required.

4.2 Label sowings accurately and clearly.

4.3 Clean and tidy site with all equipment and unused seed stored.

Outcome 5

Maintain and record seedbed maintenance to seedling stage of growth.

Performance criteria

5.1 Maintain seedbed regularly to ensure optimum seedling growth.

Range maintain seedbed may include but is not limited to – weeding,
watering, control of pests and diseases.

5.2 Check seed germination and seedling growth.

5.3 Record seedbed maintenance from seed germination to seedling stage of
growth.

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	28 February 1993	31 December 2022
Review	2	21 September 1995	31 December 2022
Review	3	28 November 1997	31 December 2022
Review	4	19 July 2001	31 December 2022
Review	5	25 July 2006	31 December 2022
Review	6	25 February 2021	N/A

Consent and Moderation Requirements (CMR) reference	0032
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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.