

<b>Title</b>	<b>Select and prepare cutting material, and harden off rooted cuttings</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	People credited with this unit standard are able to: select and prepare cutting material for nursery crops; and harden off rooted cuttings.
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<b>Classification</b>	Horticulture > Nursery Production
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<b>Available grade</b>	Achieved
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## Guidance Information

- 1 Legislation and standards relevant to this unit standard includes but is not limited to:
  - Health and Safety at Work Act 2015;
  - NZS 8409:2021 *Management of Agrichemicals*, available from Standards New Zealand [www://standards.govt.nz](http://standards.govt.nz);
  - and any subsequent amendments.
- 2 Definitions
 

*Nursery crop* refers to a crop of no less than 50 plants.

*Workplace procedures* refer to policies and procedures on safety, operation, and production set down by the employer or host organisation for propagation of cuttings.
- 3 Examples of cutting types – leaf cuttings, root cuttings, and stem cuttings (stem cuttings may include – hardwood cuttings, semi-hardwood cuttings, softwood cuttings).
- 4 All evidence presented in this unit standard must be in accordance with workplace procedures.

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## Outcomes and performance criteria

### Outcome 1

Select and prepare cutting material for nursery crops.

Range evidence of two different plant species of 50 plants each, using two different cutting types is required.

### Performance criteria

- 1.1 Select and remove cutting material from stock plants.
- 1.2 Store cutting material before processing.

- 1.3 Make cuttings and apply suitable cutting treatment.
- 1.4 Select rooting medium, container or open ground, and propagation environment.
- 1.5 Set cuttings to a depth and spacing appropriate for growth and cutting type.
- 1.6 Select propagation environment to maximise root development and cutting survival.
- 1.7 Identify and label propagated plant material.
- 1.8 Identify and report damage, wear or malfunction of tools and equipment.
- 1.9 Maintain records of selection and preparation of cutting material.

## Outcome 2

Harden off rooted cuttings.

### Performance criteria

- 2.1 Monitor and maintain cuttings for optimum plant and root development.
- 2.2 Harden off rooted cuttings and remove to growing-on area.
- 2.3 Maintain records of environmental maintenance and monitoring procedures for cuttings.

<b>Replacement information</b>	This unit standard replaced unit standard 20558.
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<b>Planned review date</b>	31 December 2026
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### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	19 January 2017	31 December 2024
Review	2	28 April 2022	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>.

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**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.