

Title	Describe sexual and asexual plant propagation and propagation methods		
Level	2	Credits	6

Purpose	People credited with this unit standard are able to: describe sexual and asexual plant propagation; describe the propagation of plants from seed, division, and cuttings; and outline plant breeders' rights.
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Classification	Horticulture > Nursery Production
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Available grade	Achieved
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Guidance Information

Legislation relevant to this unit standard includes but is not limited to:

- The Plant Variety Rights Act 1987; and any subsequent amendments.

Outcomes and performance criteria

Outcome 1

Describe sexual and asexual plant propagation.

Performance criteria

1.1 Describe sexual and asexual propagation in terms of the differences.

1.2 Describe sexual and asexual propagation in terms of their advantages and disadvantages for plant propagators.

Range three advantages and three disadvantages for each method are required.

Outcome 2

Describe the propagation of plants from seed.

Performance criteria

2.1 Describe seed sources and the storage of seed in terms of the maintenance of viability.

- 2.2 Describe seed germination in terms of conditions required.
- Range conditions include but are not limited to – seed treatments, seed viability.
- 2.3 Describe field grown seed in terms of seed raising media, containers for seed raising, and soil conditions.
- 2.4 Describe seed sowing methods in relation to containers and in the field.
- Range evidence of two methods for each are required.
- 2.5 Describe seed germination in terms of the maintenance of conditions for seed germination and seedling establishment in containers and in the field.
- 2.6 Describe reasons for growing plants from seed.
- Range evidence of two reasons is required.

Outcome 3

Describe the propagation of plants from division.

Performance criteria

- 3.1 Describe divisions in terms of the types, and give examples of plants grown by each method.
- Range types include but are not limited to – crowns, rhizomes, tubers, bulbs, corms, runners.
evidence of two types is required.
- 3.2 Describe division and the selection of suitable parent plant material in terms of timing.
- 3.3 Describe divided plant material in terms of the establishment and aftercare.
- 3.4 Describe the reasons for growing plants from division.
- Range evidence of two reasons is required.

Outcome 4

Describe the propagation of plants by cuttings.

Performance criteria

4.1 Describe cuttings in terms of the types, and give examples of plants propagated by each method.

Range cuttings include but are not limited to – stem cuttings (hardwood cuttings, semi-hardwood cuttings, soft wood cuttings, leaf cuttings, root cuttings), evergreen and deciduous. evidence of two plants is required.

4.2 Describe the selection of suitable cutting material in terms of plant type and timing.

4.3 Describe the selection of suitable propagation media and containers, and suitable soils in terms of setting cuttings in the field.

4.4 Describe cutting propagation in terms of suitable environments.

Range may include but is not limited to – greenhouse or protected environments, in the field.

4.5 Describe cuttings in terms of their care until rooted.

4.6 Describe the reasons for propagating plants from cuttings.

Range evidence of two reasons is required.

Outcome 5

Describe plant breeders’ rights.

Performance criteria

5.1 Describe the forms of protection available in terms of the rights of plant breeders and licensed growers.

Range may include but is not limited to – Plant Variety Rights, trademarks, copyright, patents.

Replacement information	This unit standard and unit standard 27707 replaced unit standard 20556.
Planned review date	31 December 2026

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	19 April 2012	31 December 2024
Review	2	28 April 2022	N/A

Consent and Moderation Requirements (CMR) reference

0052

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 if you wish to suggest changes to the content of this unit standard.