

<b>Title</b>	<b>Describe plant biology in a production horticulture context</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able to describe plant biology in a production horticulture context.
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<b>Classification</b>	Horticulture > Production Horticulture
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<b>Available grade</b>	Achieved
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### Guidance Information

#### Definitions

*Crop production cycle* is the cycle of changes of a production horticulture plant relating to the growth and harvest of a crop.

*Life cycle* is the sequence of developmental changes of a plant from germination to reproduction.

*Plant growth processes* are a series of chemical steps or biological processes whereby a plant utilises a resource or undergoes a developmental change.

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### Outcomes and performance criteria

#### Outcome 1

Describe plant biology in a production horticulture context.

#### Performance criteria

- 1.1 Describe the crop production cycle and the life cycle of a production horticulture plant in terms of their significance for plant production.
- 1.2 Describe a plant morphological structure in terms of its significance for commercial plant production.
- 1.3 Describe the interaction between environmental factors and horticultural practices in a production horticulture workplace in terms of the responses of plant tissues.

Range evidence of two environmental factors and two horticultural practices is required.

- 1.4 Describe the physiological responses of a commercial plant species or variety to horticultural practices in terms of plant growth processes.

Range horticultural practices must include but are not limited to – plant husbandry practices, nutrient management, water management; evidence of five horticultural practices is required.

<b>Replacement information</b>	This unit standard replaced unit standard 3006.
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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#### Status information and last date for assessment for superseded versions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	16 February 2017	31 December 2024
Review	2	27 January 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>.

#### 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.