

Title	Demonstrate knowledge of factors which influence plant growth		
Level	2	Credits	5

Purpose	<p>This unit standard is for people working, or intending to work, in horticulture.</p> <p>People credited with this unit standard are able to: identify and describe environmental factors which influence plant growth; plant breeding and crop management and their influence on plant growth; and explain factors and techniques that enhance plant growth for a specific crop.</p>
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Classification	Horticulture > Production Horticulture
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Available grade	Achieved
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Guidance information

Definition

Plant growth refers to annual and perennial growth stages.

Outcomes and performance criteria

Outcome 1

Identify and describe environmental factors which influence plant growth.

Performance criteria

- 1.1 Identify climatic factors and explain how climatic factors affect plant growth.
- Range temperature, light, rainfall, wind, humidity, frost.
- 1.2 Identify physical factors and explain how they affect plant growth.
- Range soil structure, soil texture, topography, aspect, frost, drainage.
- 1.3 Describe how environmental techniques can be manipulated to maximise plant growth.
- Range at least two environmental techniques.

Outcome 2

Describe plant breeding and crop management and their influence on plant growth.

Performance criteria

- 2.1 Describe how plant breeding can influence optimum plant growth.
- 2.2 Describe how crop management techniques can be used to maximise fruit and vegetative quality.
- Range pest and disease control, pruning, thinning, plant support structures, fertilising and irrigation.

Outcome 3

Explain factors and techniques that enhance plant growth for a specific crop.

Performance criteria

- 3.1 Explain factors that enhance a specific crop to achieve maximum plant growth.
- Range evidence of at least four factors.
- 3.2 Explain techniques that enhance a specific crop to achieve maximum plant growth.
- Range evidence of at least four factors.

Planned review date	31 December 2023
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 July 2006	31 December 2020
Review	2	28 February 2019	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.