Title	Describe plant microbiology		
Level	6	Credits	3

Purpose	People credited with this unit standard are able to: describe beneficial and pathogenic interactions between microorganisms and plants; and control of infectious diseases of plants.
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Classification	Science > Microbiology	. 09
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Available grade Achieved	
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Guidance Information

None.

Outcomes and performance criteria

Outcome 1

Describe beneficial interactions between microorganisms and plants.

Performance criteria

1.1 The infection process is described in terms of the physical change to the microorganism and/or plant from the interaction.

Range may include but is not limited to – nodule formation, mycorrhizal, epiphytic, rhizosphere associations.

1.2 The beneficial effects are described for the microorganism and/or plant in terms of the interaction.

Outcome 2

Describe pathogenic interactions between microorganisms and plants.

Range pathogenic interactions include – bacterial-plant, fungal-plant, viral-plant.

Performance criteria

- 2.1 Infectious plant diseases are described in terms of their pathogenesis.
- The manner in which the pathogen in each interaction gains entry is described in terms of damage to plants.

2.3 Plant mechanisms are described in relation to their defence against pathogens.

Outcome 3

Describe control of infectious diseases of plants.

Range infectious diseases include – bacterial, fungal, viral.

Performance criteria

- 3.1 Methods of infectious disease control are described in terms of the specific pathogen.
- 3.2 The mode of action is described in relation to the method of infectious disease control.

This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	22 December 1996	31 December 2014
Revision	2	19 February 1998	31 December 2014
Review	3	23 November 1999	31 December 2014
Review	4	21 May 2010	31 December 2025
Rollover	5	27 January 2015	31 December 2025
Review	6	27 September 2018	31 December 2025
Review	7	30 November 2023	31 December 2025

Consent and Moderation Requirements (CMR) reference	0113
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This CMR can be accessed at http://www.nzqa.govt.nz/framework/search/index.do.