

<b>Title</b>	<b>Describe and monitor grapevine health, and implement control measures</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>15</b>

<b>Purpose</b>	People credited with this unit standard are able to: describe grapevine health, prevention and control methods for plant pest, disease, and disorders; create a grapevine seasonal calendar and monitor grapevine health; implement control measures; monitor and evaluate the effectiveness of control measures; and record and/or store workplace information.
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<b>Classification</b>	Horticulture > Viticulture
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Legislation relevant to this unit standard includes but is not limited to:
  - Health and Safety at Work Act 2015;
  - Resource Management Act 1991;
  - and any subsequent amendments.
- 2 All evidence presented in this unit standard must be in accordance with workplace procedures.
- 3 *Workplace procedures* refer to policies and procedures on safety, operation, and production set down by the employer or host organisation for grapevine disorders and damage.
- 4 Vine disorders may include any form of damage or deficiency caused by physical, environmental, biological or chemical agents for example vermin, diseases, pests, weeds, fungi, nutrient deficiency.
- 5 Equipment will vary according to the techniques adopted.
- 6 Information systems may be paper or electronic based.

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### Outcomes and performance criteria

#### Outcome 1

Describe grapevine health, prevention and control methods for plant pest, disease, and disorders.

**Performance criteria**

- 1.1 Describe the stages of plant pest and disease life cycles in terms of the sequence, the signs and the symptoms of plant infection, timing of infection, and ability to control.
- Range evidence of life cycles of two pests and two diseases is required.
- 1.2 Describe grapevine disorders resulting from environmental events in terms of damage or deficiency caused.
- Range events may include but are not limited to – frost, hail, flooding, wind, sunburn, water, drought; evidence of two events is required.
- 1.3 Describe and compare prevention and control methods for plant pest, disease, and disorders in terms of features, and explain suitability for a specified sector.
- Range prevention and control methods include but are not limited to – chemical, biological, cultural, physical, integrated pest management (IPM).

**Outcome 2**

Create a grapevine seasonal calendar and monitor grapevine health.

**Performance criteria**

- 2.1 Create a seasonal calendar of common pest, disease and disorders, and timing of control.
- 2.2 Monitor vineyard for presence of pests, diseases, disorders and vermin.
- 2.3 Recognise vine pest, disease, disorders and vermin presence by signs and symptoms.
- 2.4 Identify causal agent-vector relationships that can affect grapevine health.
- 2.5 Recommend appropriate control activities.

**Outcome 3**

Implement control measures.

**Performance criteria**

- 3.1 Operate equipment without causing damage to vines, equipment and property structures.

3.2 Implement control measures in accordance with managers instructions.

Range control measures may include but are not limited to – growth regulants, nutrients, pesticides, fungicides, herbicides and other chemicals, baits, traps, cultivation, fumigation, guns, guards, fencing, gas guns, scaring devices; evidence of three control measures is required.

#### Outcome 4

Monitor and evaluate the effectiveness of control measures.

#### Performance criteria

4.1 Monitor vineyard to evaluate the effectiveness of control measures applied.

#### Outcome 5

Record and/or store workplace information.

#### Performance criteria

5.1 Workplace information is recorded and/or stored in a retrievable format.

Range workplace information may include but are not limited to – standard operating procedures, specifications, production schedules/instructions, work notes, Safety Data Sheets, manufacturers' instructions, verbal direction from manager; evidence of one information source is required.

<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	27 January 2022	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	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 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.