

Title	Identify and describe weeds, and methods of prevention and control		
Level	3	Credits	6

Purpose	<p>This unit standard is for people working in sectors that require knowledge of weeds and their control.</p> <p>People credited with this unit standard are able to: identify weeds commonly found in a specified sector; and describe the effects of weeds in a specified sector industry, methods, implications and legal requirements of weed prevention and control.</p>
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Classification	Primary Sector > Plant Pest, Weed, and Disease Control
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Available grade	Achieved
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Guidance Information

- 1 Legislation and regulations relevant to this unit standard include but are not limited to:
 - Hazardous Substances and New Organisms Act 1996;
 - Agricultural Chemicals and Veterinary Medicines Act 1997;
 - Biosecurity Act 1993;
 - Resource Management Act 1991;
 - local regional and territorial authority regulatory requirements.

- 2 Definitions

Cultural control – modifying the plant’s environment to control or prevent weeds or weed growth, for example, planting resistant species, companion planting, or weed mat.

Ephemeral – more than one life cycle per year.

Weed – a plant that interferes with the management objectives of a specified sector industry at a particular location. It is a plant growing where it is not wanted.

- 3 Range

Specified sector may include but not limited to agriculture, aquatic, broadacre, equine, forestry, horticulture, amenity turf, sports turf, weed and vegetation control.

Specified sector industry may be any subsector of a specified sector, for example, agriculture – dairy, sheep; aquatic – district council; broadacre – arable; equine – sport horse, thoroughbred; forestry – plantation forest, wood manufacturing; horticulture – viticulture, fruit production; amenity turf and sports turf – golf course, bowling green; weed and vegetation control – Department of Conservation.

Outcomes and performance criteria

Outcome 1

Identify weeds commonly found in a specified sector.

Range evidence is required for a minimum of ten weeds commonly found in a specified sector.

Performance criteria

1.1 Identify weeds by visual observation of their vegetative and identifying features.

1.2 Identify weeds by their common name.

Outcome 2

Describe the effects of weeds in a specified sector industry.

Performance criteria

2.1 Explain the detrimental effects of weeds in terms of problems caused in a specified sector industry.

Range detrimental effects may include but are not limited to – competition for light, space, moisture, and nutrients, aesthetic appearance, animal health, playing surface, health and safety of workers and consumers, hosting pest and disease; evidence is required for at least four effects.

2.2 Describe survival of weeds in terms of their adaptation features and methods of dispersal.

Range adaptation features may include but are not limited to – growth rate and habit, plant reproduction, seed production and dispersal, seeding height, herbicide resistance, physical and chemical defences, plant vigour, root systems and segments, competitive ability, moisture conservation, bulbs, stolons, rhizomes; evidence is required for at least eight features; evidence is required for at least three methods of dispersal.

2.3 Describe the environmental conditions in terms of their effect on weed growth and distribution.

Range evidence is required for at least three environmental conditions in the local area.

Outcome 3

Describe methods, implications and legal requirements of weed prevention and control.

Performance criteria

3.1 Describe implications of weed prevention and control in relation to each stage of plant life cycles.

Range plant life cycles – annual, biennial, ephemeral;
plant life cycle stages – seed, seedling, vegetative, reproductive.

3.2 Describe methods of weed prevention and control in terms of their relevance to, and importance for, the specified sector.

Range methods – chemical, biological, cultural, physical.

3.3 Describe weed prevention and control in terms of the legal requirements and implications.

Planned review date	31 December 2024
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	18 August 2011	31 December 2022
Review	2	28 November 2019	N/A

Consent and Moderation Requirements (CMR) reference	0232
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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.