

<b>Title</b>	<b>Demonstrate knowledge of permaculture and plan a site</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	People credited with this unit standard are able to: describe the principles of permaculture; describe procedures used to analyse a site for permaculture; create a permaculture plan for a selected site; and describe considerations when implementing the permaculture plan.
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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

None.

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### Outcomes and performance criteria

#### Outcome 1

Describe the principles of permaculture.

#### Performance criteria

- 1.1 Describe the philosophy and ethics behind permaculture in terms of caring for earth, caring for people, limiting consumption, and cooperation compared to competition.
- 1.2 Describe general principles of permaculture design in terms of horticultural operations.
- Range principles include but are not limited to – relative locations, multiple functions, zoning, sectors, shapes and patterns, appropriate technology, observation, analysis, biological resources, diversity, planning, buildings, water, yield, conservation, shapes and patterns, climate, soil.
- 1.3 Describe general requirements for establishing permaculture principles in terms of horticultural systems.
- Range requirements include but are not limited to – ecology principles, stability, sustainable use of species and habitats.

**Outcome 2**

Describe procedures used to analyse a site for permaculture.

**Performance criteria**

- 2.1 Describe the interaction of elements in terms of the design of a total permaculture system.
- Range elements include but are not limited to – site, social, energy, abstract components.
- 2.2 Describe factors to be evaluated and methods of gathering information in terms of determining requirements for a specific site.
- Range factors include but are not limited to – climate, physical resources, existing infrastructure, catastrophe defences.
- 2.3 Describe zones in permaculture in terms of importance in planning, frequency of use, and service requirements.
- 2.4 Describe the importance of sectors in permaculture in terms of planning the use of a site.
- 2.5 Describe the use of site analysis in terms of site planning.
- Range site analysis includes but is not limited to – determining location and type of structures, selection of plant types and planting strategies, identifying use of energy and related resources, determination of environmental protection requirements and locations.

**Outcome 3**

Create a permaculture plan for a selected site.

**Performance criteria**

- 3.1 Draw a site map of the original layout of the property including all key site features.
- Range features may include but are not limited to – topography, climate and microclimates, soils, water sources and drainage, sites for infrastructure, catastrophe defences.
- 3.2 Describe a range of objectives intended for the site in terms of consistency with accepted principles of permaculture.
- Range objectives include but are not limited to – site, social, energy, abstract components.

3.3 Draw a permaculture plan and describe each element of the design in an accompanying document.

Range elements include but are not limited to – site map, permaculture zones and sectors.

#### Outcome 4

Describe considerations when implementing the permaculture plan.

#### Performance criteria

4.1 Describe considerations during implementation of the permaculture plan.

Range considerations include but are not limited to – passive energy systems, climate control on site, low maintenance structures and grounds, site self sufficiency, minimising external energy needs, safe on site waste disposal, water supply provision and conservation.

4.2 Describe considerations to be monitored when evaluating the success of a permaculture development.

Range considerations include but are not limited to – energy use and savings; impact of external events on the system; effectiveness of plantings, earthworks, and facilities in the landscape; efficiency of resource use.

<b>Replacement information</b>	This unit standard replaced unit standard 10324.
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<b>Planned review date</b>	31 December 2027
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#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 October 2006	31 December 2023
Review	2	30 June 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.