

Title	Explain the cultivation of crops in accordance with tikanga and crop requirements		
Level	2	Credits	6

Purpose	People awarded this unit standard are able to explain, in accordance with tikanga and crop requirements: the preparation of the māra for cultivation, planting and the maintenance of crops.
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Classification	Whenua > Te Whakamahi Whenua
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Available grade	Achieved
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Guidance Information

- 1 Where local rohe are also occupied by a number of other iwi or hapū, the tangata whenua or mana whenua view should take precedence. Other iwi or hapū views should be encouraged in order to enrich and enhance understanding of key Māori concepts and practices.
- 2 Assessment against this unit standard can be conducted in a number of ways that may include but is not limited to – oral presentations, visual presentations, written presentations, whakaari, waiata, haka.
- 3 Tikanga may include, but are not limited to:
 - the traditional use of pest control
 - the traditional management of plant disease
 - soil modification and development
 - the use of implements
 - the use of maramataka
 - the process of māhiti
 - the use of karakia
 - whanaungatanga
 - hākari.
- 4 Definitions

Maramataka refers to a system of gardening throughout the lunar months.

Matariki – refers to the Pleiades star cluster, which is an indicator/sign for seasonal plant performance for some iwi.

Puanga refers to the Rigel star, which is an indicator/sign for seasonal plant performance for some iwi.

Rīwai refers to potato.

Kūmara refers to the sweet potato.

Kamokamo refers to marrow.

Kānga refers to maize, corn.

Paukena refers to pumpkin.

Hue refers to gourds, the young hue was used for food, and is similar in texture to the marrow.

Māhiti refers to sorting and separating according to size and quality.

5 The local species grown in pre-European times is preferred. However, due to the scarcity of some species, more common varieties may be used.

6 Range

Root grown crops may include but are not limited to – kūmara, rīwai, taro, beets, turnips, parsnips, carrots;

evidence of kūmara or rīwai; and one other root grown crop (including the other of kūmara or rīwai) is required.

Seed grown crops may include but are not limited to – kānga, kamokamo, paukena, hue, watermelon, silverbeet, carrots;

evidence of kānga, kamokamo or paukena; and one other seed grown crop (including another from kānga, kamokamo or paukena) is required.

Outcomes and performance criteria

Outcome 1

Explain the preparation of the māra for cultivation in accordance with tikanga and crop requirements.

Performance criteria

1.1 Site selection and preparation for cultivation is explained.

Range may include but is not limited to – environment, seasonal variations, adequate light, aspect, soil profile; evidence of two is required.

1.2 The soil preparation for cultivation is explained.

Range may include but is not limited to – weed free, friable, moisture content, soil fertility; evidence of two is required.

1.3 The preparation process to modify and develop the soil for cultivation is explained

Range may include but is not limited to – aeration, temperature, drainage, irrigation; evidence of two is required.

Outcome 2

Explain the planting of crops in accordance with tikanga and crop requirements.

Performance criteria

2.1 The seasons for the planting of the crops are explained.

Range maramataka, observation from Matariki or Puanga.

2.2 Methods for planting crops are explained.

Range may include but is not limited to – single layer, spacing, straight line, contour, aspect, direction; evidence of two is required.

Outcome 3

Explain the maintenance of crops in accordance with tikanga and crop requirements.

Performance criteria

3.1 Irrigation systems used to maintain the crops are explained.

Range may include but is not limited to – natural, handheld, automatic, trickle; evidence of two is required.

3.2 Furrowing and mounding methods for crops are explained.

Range manual, mechanical.

3.3 Fertiliser applications for crops are explained.

Range may include but is not limited to – natural, organic matter, artificial; evidence of two is required.

3.4 Weeding methods for crops are explained.

Range manual weeding, mechanical, selective spraying.

Planned review date	31 December 2025
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	21 May 2010	31 December 2017
Review	2	19 November 2015	31 December 2023
Revision	3	31 May 2018	31 December 2023
Rollover and Revision	4	27 June 2019	31 December 2023
Review	5	25 March 2021	N/A

Consent and Moderation Requirements (CMR) reference

0226

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact the NZQA Māori Qualifications Services mqs@nzqa.govt.nz if you wish to suggest changes to the content of this unit standard.