

# **ASSESSMENT GUIDELINES**

## **Unit 21039**

Demonstrate knowledge of the development of  
organic horticulture

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Level 2, Credit 10, version 1

# Demonstrate knowledge of the development of organic horticulture

Unit standard 21039  
Level 2, Credit 10, Version 1

## Level of performance required for this unit standard

This is a level 2 unit standard. At this level trainees are expected to demonstrate the following abilities when completing assessment tasks:

- To work under general supervision, as directed; with some responsibility for the standard of the outcome achieved.
- To complete tasks that are established and familiar, with a moderate range of skill and knowledge.
- To apply basic operational knowledge, use readily available information and known solutions to solve familiar problems.

## Workplace assessment:

For guidelines on Workplace Assessment, please refer to the NZHITO Workplace Assessors Manual, and for further information, please contact: NZHITO, P O Box 8638, Christchurch.  
Ph 03 9644 735, fax 03 9644 737, website [www.hortito.org.nz](http://www.hortito.org.nz).

## Special notes:

1. The following standards apply to this unit standard: Demeter Standards, Bio Dynamic Farming and Gardening Association, PO Box 39045, Wellington Main Centre, Phone 04 589 5366, Fax 04 589 4365, <http://www.biodynamic.org.nz>;  
BIO-GRO Standards, BIO-GRO New Zealand, PO Box 9693, Marion Square, Wellington, Phone 04 801 9741, Fax 04 801 9742, <http://www.bio-gro.co.nz>;  
Agriquality New Zealand, Agriquality Organic Standards, <http://www.agriquality.co.nz>;  
The Soil and Health Association of New Zealand (Organic Farm New Zealand),  
<http://www.organicnz.org>;  
The New Zealand Food Safety Authority, <http://www.nzfsa.govt.nz/organics>;  
NZS 8410:2003 *Organic production*, available from Standards New Zealand  
<http://www.standards.co.nz>.
2. *Workplace policies and procedures* may include but are not limited to - standard operating policies and procedures, standards and certification requirements, quality assurance procedures, health and safety procedures, emergency, fire and accident procedures.
3. Legislation relevant to this unit standard includes but is not limited to the Health and Safety in Employment Act 1992, and bylaws.

## Unit 21039: Demonstrate knowledge of the development of organic horticulture (Apprentice copy)

ELEMENT	Competent	Range of evidence an assessor should consider
<p><b>Element 1</b> Describe the basic relationships and characteristics of an organic system.</p>	<b>Yes/No</b>	<ul style="list-style-type: none"> <li>▪ Description identifies the importance of inter-relationships in the holistic philosophy applied in organic horticulture. Range: between organisms and their environment, between different life forms.</li> <li>▪ Description identifies key characteristics of organic horticulture. Range: matter and recycling, sustainability, biologically diverse, stable, integrated pest and disease management.</li> <li>▪ Description defines how the application of these relationships and characteristics ensures a successful, integrated production system.</li> </ul>
<p><b>Element 2</b> Describe the development of modern organic horticulture.</p>	<b>Yes/No</b>	<ul style="list-style-type: none"> <li>▪ Description identifies domestication of crops, industrialisation of horticulture, and identification of need for restorative and sustainable product methods.</li> <li>▪ Description includes reference to the key concepts of organic farming and the role of certification. Range: sustainability, biological farming, independent verification of production methods, conservation of resources, social responsibility.</li> <li>▪ Food safety is discussed as a concept. Range: food production, processing, environmental contamination, microbiology, waste streams, traceability.</li> </ul>
<p><b>Element 3</b> Describe the schools of thought that are credited with the development of the modern organic horticulture movement.</p>	<b>Yes/No</b>	<ul style="list-style-type: none"> <li>▪ Description identifies the characteristics of two schools of thought and their influence on the development of organic horticulture. Range: any two of – Rodale, Fukuoka, Howard, Steiner.</li> </ul>
<p><b>Element 4</b> Describe the principles of a selected range of organic movements.</p>	<b>Yes/No</b>	<ul style="list-style-type: none"> <li>▪ Description outlines the principles of selected movements. Range: Permaculture, Biodynamics, Nature Farming, Soil Food Web.</li> <li>▪ Description includes ways in which two of the selected movements support the principles of organic horticulture.</li> </ul>
<p><b>Element 5</b> Describe the roles of key organisations that have a strong influence on organic horticulture.</p>	<b>Yes/No</b>	<ul style="list-style-type: none"> <li>▪ Description identifies the role of organisations internationally important to organic horticulture.</li> <li>▪ Description identifies the roles that organisations have played in the development of the New Zealand horticulture industry.</li> </ul>

\_\_\_\_\_ (Name of Apprentice)

is **Competent / Not yet competent** in Unit Standard 21093 (version 1)

**Signed (Assessor):** \_\_\_\_\_

WPA Registration Number: \_\_\_\_\_ Date: \_\_\_\_\_

## Unit 21039: Demonstrate knowledge of the development of organic horticulture (Assessor copy)

ELEMENT	Competent	Range of evidence an assessor should consider
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\_\_\_\_\_ (Name of Apprentice)

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WPA Registration Number: \_\_\_\_\_ Date: \_\_\_\_\_

Please send this page to your NZHITO Regional Manager, who will forward it to National Office to register the credits on your NZQA Record of Learning.

## **Unit 21039: Demonstrate knowledge of the development of organic horticulture**

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*(Name of Apprentice)*

**is Competent in Unit Standard 21093** (version 1)

**Signed (Assessor):**

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WPA Registration Number: \_\_\_\_\_

Date: \_\_\_\_\_