

ASSESSMENT GUIDELINES

Unit 21047

Describe, produce and apply liquid fertilizers
used in organic horticulture

Level 3, Credit 5, version 1

Describe, produce and apply liquid fertilisers used in organic horticulture

Unit standard 21047
Level 3, Credit 5, Version 1

Level of performance required for this unit standard

This is a level 3 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.

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. Legislation relevant to this unit standard includes but is not limited to: Health and Safety in Employment Act 1992, Resource Management Act 1991; and Hazardous Substances and New Organisms Act 1996.
3. *Workplace procedures* refer to verbal or written instructions to staff on procedures for the worksite and equipment.

**Unit 21047: Describe, produce and apply liquid fertilisers
used in organic horticulture
(Apprentice copy)**

ELEMENT	Competent	Range of evidence an assessor should consider
Element 1 Describe liquid fertilisers used in organic horticulture.	Yes/No	<ul style="list-style-type: none"> ▪ Types of liquid fertilisers are described. Range: compost tea, plant material based, animal material based. ▪ Ingredients suitable for use in liquid fertilisers are described. Range: plant matter, animal matter, additives. ▪ Description identifies requirements for product storage and use of organic liquid fertilisers. Range: stability, pH, biologically active, pathogens. ▪ Common methods of liquid fertiliser application are described. Range: foliar application, fertigation, coverage, sticking and spreading. ▪ Description identifies two benefits of using liquid fertilisers.
Element 2 Make and apply liquid fertilisers.	Yes/No	<ul style="list-style-type: none"> ▪ Liquid fertilisers are made in accordance with selected method and workplace procedure. Range: two of – compost tea, plant material based, animal material based. ▪ Liquid fertilisers are applied to selected crops using correct dilution and appropriate equipment for the conditions in accordance with workplace procedures.

_____ (Name of Apprentice)

is **Competent / Not yet competent** in Unit Standard 21047 (version 1)

Signed (Assessor): _____

WPA Registration Number: _____ Date: _____

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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.

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