# ASSESSMENT GUIDELINES

## Unit 22192

Plan a fertiliser programme for horticulture use.

Level 3, Credit 10, version 1

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Unit standard 22192
Level 3, Credit 10, 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, with some independence; with significant responsibility for the standard of the outcome achieved.
- To apply technical skills and knowledge to complete the task to the specified standard, in a familiar context.
- To interpret available information, and use discretion and judgment.

**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 A selected horticulture area may include an amenity or landscape area; or a fruit, viticulture, vegetable, flower or nursery crop.

2 Codes and related documentation applicable to this unit standard include but are not limited to: *The Code of Practice for Fertiliser Use*, available from the New Zealand Fertiliser Manufacturers Research Association (NZFMRA) http://www.fertresearch.org.nz

3 Legislation relevant to this unit standard includes but is not limited to the Health and Safety in Employment Act 1992 and the Resource Management Act 1991.

# Unit 22192: Plan a fertiliser programme for horticulture use.
# (Apprentice copy)

| ELEMENT | Competent | Range of evidence an assessor should consider |
|---|---|---|
| **Element 1**<br>Describe the properties and characteristics of fertilisers used in horticulture. | **Yes/No** | ▪ Describe the properties and characteristics of fertilisers in terms of solubility and formation. Range: soluble, slow release, organic, inorganic, salt index, particle size, acidity, chelate, granule, liquid, foliar, solid, straight, mixture, compound.<br>▪ Describe the characteristics of fertilisers in terms of the percentage of major nutrients they contain.<br>▪ Compare the advantages and disadvantages of fertilisers in terms of their rate of release, size of granule, ease of application, storage and handling, characteristics and effects on soil.<br>▪ Recognise common fertilisers by sight. Range: ten fertilisers commonly used in horticulture. |
| **Element 2**<br>Assess the nutrient status of a selected horticulture area.<br>Range: one of – soil or plant | **Yes/No** | ▪ Sample the area for nutrient analysis in accordance with the requirements of the testing laboratory.<br>▪ Mark and record the location of each sample taken, on a site plan.<br>▪ Package, label and dispatch the sample to ensure the condition of the sample is preserved until testing commences at a quality certified testing laboratory.<br>▪ Assess the nutrient status of the selected area in terms of optimum nutrient ratios and levels.<br>▪ Identify through looking at the laboratory results any nutrient deficiencies or excesses.<br>▪ Assess the testing process and test interpretation in terms of their limitations. |
| **Element 3**<br>Plan an annual fertiliser programme for a selected horticulture area. | **Yes/No** | ▪ Plan an annual fertiliser programme for a selected horticulture area using soil and/or foliar testing results and other site-specific information. Range: plant nutrient analysis data, drainage, soil type, disease susceptibility, length of growing season, budget, conversion of soil test data to kg/ha of nutrient, season, climate, and crop load<br>▪ Express the annual fertiliser programme in terms of kg/ha of nutrient and fertiliser necessary to meet nutrient requirements. |

_____ *(Name of Apprentice)*

is **Competent / Not yet competent** in Unit Standard 22192. (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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_____

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