# ASSESSMENT GUIDELINES

## Unit 794

Control the greenhouse environment.

Level 3, Credit 5, version 4

# Control the greenhouse environment.

## Unit standard 794

Level 3, Credit 4

**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, PO Box 8638, Christchurch.
Ph 03 9644 735, fax 03 9644 737, website www.hortito.org.nz

**Special notes:**

1 *Workplace procedures* refer to verbal or written instructions to staff on procedures for the worksite and equipment.

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

# Unit 794: Control the greenhouse environment
# (Apprentice copy)

| ELEMENT | Competent | Range of evidence an assessor should consider |
|---|---|---|
| **Element 1**<br>Explain how the greenhouse environment can be controlled. | **Yes/No** | ▪ Explain methods of modifying the greenhouse environment to optimize plant growth. Range: carbon dioxide, humidity, day length, irrigation light.<br>▪ Describe methods of controlling the cooling of the greenhouse to optimize plant growth.<br>▪ Explain the methods of controlling heating or retaining heat in the greenhouse in terms of equipment used to optimize plant growth.<br>▪ Explain ways of increasing carbon dioxide levels in the greenhouse in terms of equipment used.<br>▪ Explain ways of modifying the humidity in the greenhouse in terms of equipment used<br>▪ Explain ways of modifying day length in the greenhouse in terms of equipment used.<br>▪ Explain ways of irrigating plants in the greenhouse in terms of equipment used.<br>▪ Explain ways of controlling light levels in the greenhouse in terms of equipment used. |
| **Element 2**<br>Control, monitor and maintain the greenhouse environment. | **Yes/No** | ▪ Demonstrate the use and maintenance of greenhouse environmental control equipment, methods and mechanisms in accordance with manufacturer's instructions and workplace procedures. Range: environmental controls – manual vents, automatic vents, automatic misting equipment, irrigation system, fans and humidifiers, heaters and thermometers, heated beds, carbon dioxide enrichment equipment, whitewash on sheathing, sliding covers, supplementary lighting; evidence is required for any seven environmental controls.<br>▪ Record greenhouse environment data and control the greenhouse environment over a three month period. |

_____ *(Name of Apprentice)*

is **Competent / Not yet competent** in Unit Standard 794. (version 4)

**Signed (Assessor):** _____

WPA Registration Number: _____ Date: _____

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# (Assessor copy)

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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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*(Name of Apprentice)*

**is Competent in Unit Standard 794.** **(version 4)**

**Signed (Assessor):**

_____

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Date: _____