

# **ASSESSMENT GUIDELINES**

## **Unit 21223**

Plan planting layout and plant fruit plants

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Level 3, Credit 10, version 2

# Plan planting layout and plant fruit plants

Unit standard 21223

Level 3, Credit 10, version 2

## 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](http://www.hortito.org.nz)

## Replacement information:

This unit standard replaces Unit 786 *Plant fruit plants in orchard or vineyard sites*, and Unit 787 *Mark positions for fruit plants in a new block*.

## 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, and the Resource Management Act 1991.
- 3 This unit standard is not intended to cover grapes. People working, or intending to work, in viticulture may complete Unit 19937, *Perform field nursery activities*.

## Unit 21223: Plan planting layout and plant fruit plants (Apprentice copy)

| ELEMENT   | Competent     | Range of evidence an assessor should consider   |
|---|---------------|---|
| <b>Element 1</b><br>Plan layout of a block of fruit plants and mark plant positions | <b>Yes/No</b> | <ul style="list-style-type: none"> <li>• Specify the orientation, row spacing and layout according to workplace procedures. The specifications include: shape of block, wind direction, North-South; optimum row length, harvesting requirements, plant spacings, training system; shelterbelts, stock, scion, soil and climate.</li> <li>• Mark plant positions according to planned layout. Marking the plant positions includes using a base line, lining out row positions and directions, making sure rows are straight, and plants evenly spaced.</li> </ul>  |
| <b>Element 2</b><br>Prepare to plant fruit plants                                   | <b>Yes/No</b> | <ul style="list-style-type: none"> <li>• As plants are received, check them off against the order. Checking involves cultivar and quality, quantity.</li> <li>• Heel plants in, or otherwise maintain them, until planting time so that they do not deteriorate.</li> </ul>   |
| <b>Element 3</b><br>Prepare the area for planting                                   | <b>Yes/No</b> | <ul style="list-style-type: none"> <li>• Select appropriate tools and equipment for a specified use and use them safely according to workplace procedures.</li> <li>• Cultivate the soil as necessary to an appropriate depth and tilth according to workplace procedures.</li> <li>• Apply soil amendments using appropriate materials and rates according to workplace procedures. Amendments may include fertilisers, organic matter, or lime.</li> <li>• Clean tools and equipment of all residues and return to storage according to manufacturers specifications and workplace procedures.</li> </ul> |
| <b>Element 4</b><br>Plant fruit plants into final sites                             | <b>Yes/No</b> | <ul style="list-style-type: none"> <li>• Space plants according to the scion and root combination, in accordance with supervisor's directions. Correct depth, facing right direction, roots pruned if necessary and well spread, soil suitably distributed and firmed, fertiliser incorporated with soil if desired.</li> <li>• Plants are checked for correct depth, upright, and firmed properly, and any adjustments needed are made by hand.</li> </ul>   |
| <b>Element 5</b><br>Care for plants immediately after planting                      | <b>Yes/No</b> | <ul style="list-style-type: none"> <li>• Apply plastic sleeves as required by plant type.</li> <li>• Remove any labels and complete pruning according to workplace procedures.</li> <li>• Tie plants to support structures as required, according to workplace procedures.</li> <li>• Water/irrigate plants as required to enhance plant establishment.</li> </ul>  |

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

is **Competent / Not yet competent** in Unit Standard 21223 (version 2)

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

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

**Unit 21223: Plan planting layout and plant fruit plants  
(Assessor copy)**

| <b>ELEMENT</b>  | <b>Competent</b> | <b>Range of evidence an assessor should consider</b>  |
|---|------------------|---|
| <b>Element 1</b><br>Plan layout of a block of fruit plants and mark plant positions | <b>Yes/No</b>    | <ul style="list-style-type: none"> <li>Specify the orientation, row spacing and layout according to workplace procedures. The specifications include: shape of block, wind direction, North-South; optimum row length, harvesting requirements, plant spacings, training system; shelterbelts, stock, scion, soil and climate.</li> <li>Mark plant positions according to planned layout. Marking the plant positions includes using a base line, lining out row positions and directions, making sure rows are straight, and plants evenly spaced.</li> </ul>                                      |
| <b>Element 2</b><br>Prepare to plant fruit plants                                   | <b>Yes/No</b>    | <ul style="list-style-type: none"> <li>As plants are received, check them off against the order. Checking involves cultivar and quality, quantity.</li> <li>Heel plants in, or otherwise maintain them, until planting time so that they do not deteriorate.</li> </ul>   |
| <b>Element 3</b><br>Prepare the area for planting                                   | <b>Yes/No</b>    | <ul style="list-style-type: none"> <li>Select appropriate tools and equipment for a specified use and use them safely according to workplace procedures.</li> <li>Cultivate the soil as necessary to an appropriate depth and tilth according to workplace procedures.</li> <li>Apply soil amendments using appropriate materials and rates according to workplace procedures. Amendments may include fertilisers, organic matter, or lime.</li> <li>Clean tools and equipment of all residues and return to storage according to manufacturers specifications and workplace procedures.</li> </ul> |
| <b>Element 4</b><br>Plant fruit plants into final sites                             | <b>Yes/No</b>    | <ul style="list-style-type: none"> <li>Space plants according to the scion and root combination, in accordance with supervisor's directions. Correct depth, facing right direction, roots pruned if necessary and well spread, soil suitably distributed and firmed, fertiliser incorporated with soil if desired.</li> <li>Plants are checked for correct depth, upright, and firmed properly, and any adjustments needed are made by hand.</li> </ul>   |
| <b>Element 5</b><br>Care for plants immediately after planting                      | <b>Yes/No</b>    | <ul style="list-style-type: none"> <li>Apply plastic sleeves as required by plant type.</li> <li>Remove any labels and complete pruning according to workplace procedures.</li> <li>Tie plants to support structures as required, according to workplace procedures.</li> <li>Water/irrigate plants as required to enhance plant establishment.</li> </ul>  |

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

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

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 21223: Plan planting layout and plant fruit plants**

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*(Name of Apprentice)*

**is Competent in Unit Standard 21223** (version 2)

**Signed (Assessor):**

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

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