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**FRUIT PRODUCTION**  
**Plan planting layout and plant fruit**  
**plants**

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<b>level:</b>	<b>3</b>
<b>credit:</b>	<b>10</b>
<b>planned review date:</b>	July 2009
<b>sub-field:</b>	Horticulture
<b>replacement information:</b>	This unit standard replaced unit standard 786 and unit standard 787.
<b>purpose:</b>	This unit standard is for people working, or intending to work, in fruit production. People credited with this unit standard are able to: plan the layout of a block of fruit plants and mark plant positions; prepare to plant fruit plants; prepare the area for planting; plant fruit plants into final sites; and care for plants immediately after planting.
<b>entry information:</b>	Open.
<b>accreditation option:</b>	Evaluation of documentation and visit by NZQA, industry and teaching professional in the same field from another provider.
<b>moderation option:</b>	A centrally established and directed national moderation system has been set up by the Primary Industry Training Organisation.
<b>special notes:</b>	<ol style="list-style-type: none"><li>1 <i>Workplace procedures</i> refer to verbal or written instructions to staff on procedures for the worksite and equipment.</li><li>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.</li><li>3 This unit standard is not intended to cover grapes. People working, or intending to work, in viticulture may complete Unit 19937, <i>Perform field nursery activities in the vineyard</i>.</li></ol>

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**Elements and Performance Criteria**

**element 1**

Plan the layout of a block of fruit plants and mark plant positions.

**performance criteria**

- 1.1 Orientation, row spacing, and layout are specified in accordance with workplace procedures.
- Range: shape of block, wind direction, north-south; optimum row length, harvesting requirements, plant spacings, training system; shelterbelts, stock, scion, soil and climate.
- 1.2 Plant positions are marked in accordance with planned layout.
- Range: base line, row positions and directions, straight rows, evenly spaced plants.

**element 2**

Prepare to plant fruit plants.

**performance criteria**

- 2.1 Plants are received and checked.
- Range: cultivar and quality, quantity.
- 2.2 Plants are heeled in, or otherwise maintained, until planting time so that they do not deteriorate.

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**element 3**

Prepare the area for planting.

**performance criteria**

- 3.1 Appropriate tools and equipment are selected for specified use and are used safely in accordance with workplace procedures.
- 3.2 Soil is cultivated as necessary to an appropriate depth and tilth in accordance with workplace procedures.
- 3.3 Soil amendments are applied using appropriate materials and rates in accordance with workplace procedures.
- Range: may include but is not limited to – fertilisers, organic matter, lime.
- 3.4 Tools and equipment are cleaned of all residues and returned to storage in accordance with manufacturer's specifications and workplace procedures.

**element 4**

Plant fruit plants into final sites.

**performance criteria**

- 4.1 Plants are spaced in accordance with the scion and root combination and in accordance with supervisor's directions.
- Range: correct depth, facing right direction, roots pruned if necessary and well spread, soil suitably distributed and firmed, fertiliser incorporated with soil if desired.
- 4.2 Plants are checked for correct depth, are upright and firmed properly, and any adjustments needed are made by hand.

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**element 5**

Care for plants immediately after planting.

**performance criteria**

- 5.1 Plastic sleeves are applied as required by plant type.
- 5.2 Any labels are removed and pruning is completed in accordance with workplace procedures.
- 5.3 Plants are tied to support structures as required in accordance with workplace procedures.
- 5.4 Plants are watered or irrigated as required to enhance plant establishment.

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**Comments on this unit standard**

Please contact Primary Industry Training Organisation <http://www.primaryito.ac.nz> if you wish to suggest changes to the content of this unit standard.

**Please Note**

Providers must be accredited by the Qualifications Authority or a delegated inter-institutional body before they can register credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by the Qualifications Authority before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for providers wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

This unit standard is covered by AMAP 0032 which can be accessed at <http://www.nzqa.govt.nz/site/framework/search.html>.