

ASSESSMENT GUIDELINES

Unit 20567

Produce a nursery crop

Level 4, Credit 20, version 2

Produce a nursery crop

Unit standard 20567

Level 4, Credit 20, version 2

Level of performance required for this unit standard

This is a level 4 unit standard. At this level trainees are expected to demonstrate the following abilities when completing assessment tasks:

- To work under broad guidance, independently; with complete responsibility for the standards of the outcome achieved.
- To apply the technical skills, supporting knowledge, and innovation to complete the task to the specified standard, in a variety of familiar and unfamiliar contexts.
- To analyse and interpret information, and make an informed judgement.

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

Entry information:

Open. *It is recommended that the candidate have prior experience in all aspects of the production of a nursery crop before seeking credit for this unit standard.*

Special notes:

Workplace procedures refers to verbal or written instructions to staff on procedures for the worksite and equipment.

It is intended that at least one nursery crop is produced from the planning stage through to the preparation of the crop for sale or dispatch. Alternatively several small crops grown in similar conditions, for example, in the same plant house, could be used for this unit standard. The crop or crops selected should take no more than two years from planning and establishment to reaching a saleable size.

Although the candidate should be aware of the processes, they should not be expected to make decisions such as the species or cultivars to be grown, the numbers of plants to be produced, the market for the crop, or the date the crop is required. However, the candidate will use this information while planning the crop production.

The candidate's evidence could be presented in the form of a written report.

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

Work may involve exposure to chemical, dangerous, or hazardous substances. Safety procedures are observed in accordance with NZS 8409:2004 *Management of Agrichemicals*, available from Standards New Zealand <http://standards.co.nz>, or the NZ Agrichemical Education Trust <http://growsafe.co.nz>.

**Unit 20567: Produce a nursery crop
(Apprentice copy)**

ELEMENT	Competent	Range of evidence an assessor should consider
<p>Element 1 Plan the production of a specified nursery crop.</p>	<p>Yes/No</p>	<ul style="list-style-type: none"> • Prepare production schedule for one crop of nursery plants (container or field grown, indoors or outdoors). Schedule may include the plant species or cultivar to grow, the numbers required, the market to be supplied, the date the saleable plants are required, key production process dates, when likely labour demands will occur, when growing space is needed. • Select growing a growing method suitable for the crop, and will suit the available growing facilities, and the buyer's requirements. Growing method can be selected from container or field grown, planter bag or rigid pot or other container system, grown indoors or outdoors, the growing medium to use. • Calculate the materials, labour, equipment, and space requirements for the crop in terms of the quantities needed and timing. • Decide on a suitable source of plant material from either propagation on site, growing on lines, or from tissue culture. The source of plant material has to be consistent with workplace practices, available facilities, available propagating material, labour and time constraints. • Establish quality standards for the plants.
<p>Element 2 Manage the production of the nursery crop</p>	<p>Yes/No</p>	<ul style="list-style-type: none"> • Establish plants in a suitable growing environment to suit the plant species or cultivar, stage of growth and chosen production process. • Meet quality standards through appropriate plant management techniques and a suitable growing environment. These can include correct selection of plant spacing, day length, light levels, irrigation management, fertiliser applications, weed control, potting on, staking, pruning, training, use of growth regulators, and plant conditioning. • Monitor the crop during production to ensure the plant growth targets and quality standards are met. • Monitor plant health and carry out prevention, control, or correction methods as required. • Use labour efficiently to match production tasks, and the need to meet production timelines. The actual labour use needs to be within the original requirements forecasted to produce the crop. • Adjust the controlled growing environment to ensure plants achieve the required quality standards by the target date.
<p>Element 3 Prepare the nursery crop for sale</p>	<p>Yes/No</p>	<ul style="list-style-type: none"> • Check plants prior to sale or dispatch to ensure quality standards are achieved. • Check target numbers and dates are to be met or adjust as required. • Carry out any needed treatments in a timely manner prior to dispatch. Treatments may include - conditioning, hardening off, undercutting, root pruning. • Prepare plants for sale or dispatch according to buyers requirements, quality standards, and workplace practices. The preparation may include - lifting plants, cleaning containers, packaging roots, grading plants, adding sleeves or other packaging, adding any promotional material or labelling, packing plants.

_____ (Name of Apprentice)

is **Competent / Not yet competent** in Unit Standard 20567 (version 2)

Signed (Assessor): _____

WPA Registration Number: _____ Date: _____

**Unit 20567: Produce a nursery crop
(Assessor copy)**

ELEMENT	Competent	Range of evidence an assessor should consider
Element 1 Plan the production of a specified nursery crop.	Yes/No	<ul style="list-style-type: none"> • Prepare production schedule for one crop of nursery plants (container or field grown, indoors or outdoors). Schedule may include the plant species or cultivar to grow, the numbers required, the market to be supplied, the date the saleable plants are required, key production process dates, when likely labour demands will occur, when growing space is needed. • Select growing a growing method suitable for the crop, and will suit the available growing facilities, and the buyer's requirements. Growing method can be selected from container or field grown, planter bag or rigid pot or other container system, grown indoors or outdoors, the growing medium to use. • Calculate the materials, labour, equipment, and space requirements for the crop in terms of the quantities needed and timing. • Decide on a suitable source of plant material from either propagation on site, growing on lines, or from tissue culture. The source of plant material has to be consistent with workplace practices, available facilities, available propagating material, labour and time constraints. • Establish quality standards for the plants.
Element 2 Manage the production of the nursery crop	Yes/No	<ul style="list-style-type: none"> • Establish plants in a suitable growing environment to suit the plant species or cultivar, stage of growth and chosen production process. • Meet quality standards through appropriate plant management techniques and a suitable growing environment. These can include correct selection of plant spacing, day length, light levels, irrigation management, fertiliser applications, weed control, potting on, staking, pruning, training, use of growth regulators, and plant conditioning. • Monitor the crop during production to ensure the plant growth targets and quality standards are met. • Monitor plant health and carry out prevention, control, or correction methods as required. • Use labour efficiently to match production tasks, and the need to meet production timelines. The actual labour use needs to be within the original requirements forecasted to produce the crop. • Adjust the controlled growing environment to ensure plants achieve the required quality standards by the target date.
Element 3 Prepare the nursery crop for sale	Yes/No	<ul style="list-style-type: none"> • Check plants prior to sale or dispatch to ensure quality standards are achieved. • Check target numbers and dates are to be met or adjust as required. • Carry out any needed treatments in a timely manner prior to dispatch. Treatments may include - conditioning, hardening off, undercutting, root pruning. • Prepare plants for sale or dispatch according to buyers requirements, quality standards, and workplace practices. The preparation may include - lifting plants, cleaning containers, packaging roots, grading plants, adding sleeves or other packaging, adding any promotional material or labelling, packing plants.

_____ (Name of Apprentice)

is **Competent / Not yet competent** in Unit Standard 20567 (version 2)

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 20567: Produce a nursery crop

(Name of Apprentice)

is Competent in Unit Standard 20567 (version 2)

Signed (Assessor):

WPA Registration Number: _____

Date: _____