

ASSESSMENT GUIDELINES

Unit 23783

Grow and maintain plants in containers from seed.

Level 1, Credit 5, Version 1

Grow and maintain plants in containers from seed.

Unit standard 23783

Level 1, Credit 5, Version 1

Level of performance required for this unit standard

This is a level 1 unit standard. At this level trainees are expected to demonstrate the following abilities when completing assessment tasks:

- To work under close supervision, as directed; with no responsibility for the standard of the outcome achieved.
- To complete tasks that are repetitive and familiar, with a limited range of skills and knowledge.

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 *Industry practices* refer to accepted horticulture industry techniques, procedures, and standards.
- 2 The germinated seedlings must be used to produce the growing on stage of plants in containers.

**Unit 23783: Grow and maintain plants in containers from seed.
(Apprentice copy)**

ELEMENT	Competent	Range of evidence an assessor should consider
Element 1 Identify parts of seeds and germinated seeds.	Yes/No	<ul style="list-style-type: none"> ▪ Identify the external parts of seeds. Including: Range: seed coat (testa), micropyle, scar (hilum). ▪ Identify the plant parts of germinated seedlings. Including: cotyledons, true leaves, stem, primary root.
Element 2 Sow and germinate seeds in containers.	Yes/No	<ul style="list-style-type: none"> ▪ Identify media for seed sowing. Range: may include but is not limited to seed raising mix, vermiculite. ▪ Identify seed sowing containers. Including: punnets, trays ▪ Sow seeds in containers in accordance with industry practices. Including: depth of seed, spacing, labels. ▪ Germinate seeds in containers in accordance with industry practices.
Element 3 Maintain and prick out seedlings.	Yes/No	<ul style="list-style-type: none"> ▪ Maintain seedlings in accordance with industry practices until the pricking out stage. Range of considerations include: media moisture levels maintained, pest and disease free, cotyledons emerged, first true leaves formed. ▪ Hardened-off seedlings in accordance with industry practices prior to pricking out. ▪ Prick seedlings out into seedling containers in accordance with industry practices. Include: a minimum of 20 seedlings, even spacing, similar sized seedlings, no damage to seedlings, healthy seedlings. ▪ Grow and maintain pricked out seedlings in accordance with industry practices. Include: media moisture levels maintained, pest and disease free.
Element 4 Grow and maintain plants in containers..	Yes/No	<ul style="list-style-type: none"> ▪ Hardened-off seedlings in accordance with industry practices prior to potting up. ▪ Select seedlings and individually pot them into containers in accordance with industry practices. Range: containers may include but are not limited to – potting bags, pots. ▪ Maintain potted plants in accordance with industry practices. Range: media moisture levels maintained, pest and disease free. ▪ Present at least 12 plants when there is evidence of at least three new internodes of growth on each plant (growing on stage).
Element 5 Keep a diary record of the growth of plants from sowing of seeds to the growing on stage (three new internodes of growth)	Yes/No	<ul style="list-style-type: none"> ▪ Keep a record of the procedures undertaken in the preparation of the seeds for sowing and the sowing process. ▪ Keep a weekly record describing care and maintenance of the seeds and seedlings up until the containerised plants reach the stage of three internodes of growth on each plant. Record may include but is not limited to – watering, plant and root growth, pests and diseases, other environmental conditions.

(Name of Apprentice)

is **Competent / Not yet competent** in Unit Standard 23783, version 1

Signed (Assessor): _____

WPA Registration Number: _____ Date: _____

**Unit 23783: Grow and maintain plants in containers from seed.
(Assessor copy)**

ELEMENT	Competent	Range of evidence an assessor should consider
Element 1 Identify parts of seeds and germinated seeds.	Yes/No	<ul style="list-style-type: none"> ▪ Identify the external parts of seeds. Including: Range: seed coat (testa), micropyle, scar (hilum). ▪ Identify the plant parts of germinated seedlings. Including: cotyledons, true leaves, stem, primary root.
Element 2 Sow and germinate seeds in containers.	Yes/No	<ul style="list-style-type: none"> ▪ Identify media for seed sowing. Range: may include but is not limited to seed raising mix, vermiculite. ▪ Identify seed sowing containers. Including: punnets, trays ▪ Sow seeds in containers in accordance with industry practices. Including: depth of seed, spacing, labels. ▪ Germinate seeds in containers in accordance with industry practices.
Element 3 Maintain and prick out seedlings.	Yes/No	<ul style="list-style-type: none"> ▪ Maintain seedlings in accordance with industry practices until the pricking out stage. Range of considerations include: media moisture levels maintained, pest and disease free, cotyledons emerged, first true leaves formed. ▪ Hardened-off seedlings in accordance with industry practices prior to pricking out. ▪ Prick seedlings out into seedling containers in accordance with industry practices. Include: a minimum of 20 seedlings, even spacing, similar sized seedlings, no damage to seedlings, healthy seedlings. ▪ Grow and maintain pricked out seedlings in accordance with industry practices. Include: media moisture levels maintained, pest and disease free.
Element 4 Grow and maintain plants in containers..	Yes/No	<ul style="list-style-type: none"> ▪ Hardened-off seedlings in accordance with industry practices prior to potting up. ▪ Select seedlings and individually pot them into containers in accordance with industry practices. Range: containers may include but are not limited to – potting bags, pots. ▪ Maintain potted plants in accordance with industry practices. Range: media moisture levels maintained, pest and disease free. ▪ Present at least 12 plants when there is evidence of at least three new internodes of growth on each plant (growing on stage).
Element 5 Keep a diary record of the growth of plants from sowing of seeds to the growing on stage (three new internodes of growth)	Yes/No	<ul style="list-style-type: none"> ▪ Keep a record of the procedures undertaken in the preparation of the seeds for sowing and the sowing process. ▪ Keep a weekly record describing care and maintenance of the seeds and seedlings up until the containerised plants reach the stage of three internodes of growth on each plant. Record may include but is not limited to – watering, plant and root growth, pests and diseases, other environmental conditions.

(Name of Apprentice)

is **Competent / Not yet competent** in Unit Standard 23783, version 1

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 23783: Grow and maintain plants in containers from seed.

(Name of Apprentice)

is Competent in Unit Standard 23783. (version 1)

Signed (Assessor):

WPA Registration Number: _____

Date: _____