

ASSESSMENT GUIDELINES

Unit 50

Prepare seedbeds and sow crops on a field scale

Level 4, Credit 5, version 5

Prepare seedbeds and sow crops on a field scale

Unit standard 50
Level 4, Credit 10, Version 5

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 technical skills, knowledge and innovation to complete the task to the specified standard, in a variety of familiar and unfamiliar context.
- To analyse and interpret information, and make an informed 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, Transport Act 1962, Traffic Regulations 1976, Transport (Vehicle and Driver Registration and Licensing) Act 1986.
- 3 *Field scale* refers to operations requiring the use of tractor mounted equipment or implements.
- 4 A person must be 15 years or older and hold a full light motor vehicle (Class 1) licence to legally drive a tractor up to 4.5 tonne on a public road.

Unit 50: Prepare seedbeds and sow crops on a field scale (Apprentice copy)

ELEMENT	Competent	Range of evidence an assessor should consider
<p>Element 1 Distinguish between various seedbed types. Range: select a minimum of two seedbeds – grass, cereals, brassica, onions, nursery crops.</p>	<p>Yes/No</p>	<ul style="list-style-type: none"> ▪ Describe each seedbed in terms of the physical characteristics required for sowing or planting ▪ Describe the merits of different methods of seedbed preparation in terms of crop establishment and output. Range: physical characteristics – the sequence and effects of preparation on soil properties and tilth, influences of terrain, soil type and location of the seedbed.
<p>Element 2 Prepare a seedbed.</p>	<p>Yes/No</p>	<ul style="list-style-type: none"> ▪ Ensure cultivation equipment selected is appropriate to the preparation of a specified seedbed. Range: preparation includes maximum trash burial and weed control, optimum soil conditions for seed germination and establishment, minimised loss of soil moisture, damage to soil properties and sustainability of the soil. ▪ Ensure decisions on sequence for cultivation and fertiliser application rate are consistent with the intended crop and physical characteristics of the field. Range: physical characteristics of the field include but not limited to – soil type, tilth, terrain, location. ▪ Carry out seedbed cultivation and fertiliser application according to the planned actions and in accordance with workplace procedures.
<p>Element 3 Sow seed using mechanical seed drills, on a field scale.</p>	<p>Yes/No</p>	<ul style="list-style-type: none"> ▪ Calibrate the seed drill for the seeds sown according to seed merchants' and manufacturers' guidelines and specifications. ▪ Sow seeds according to seed type, depth, and area to be sown. ▪ Demonstrate vehicle and implement use practices according to workplace procedures.
<p>Element 4 Maintain seedbed and seedlings to post emergence stage.</p>	<p>Yes/No</p>	<ul style="list-style-type: none"> ▪ Maintain seedbed to ensure optimum plant growth. ▪ Check seeds daily for germination emergence. ▪ Keep records of plant growth up to post emergence stage. ▪ Check seedlings daily to ensure optimum plant growth. Range: pests and diseases, irrigation, drainage.

_____ (Name of Apprentice)

is **Competent / Not yet competent** in Unit Standard 50. (version 5)

Signed (Assessor): _____

WPA Registration Number: _____ Date: _____

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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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