

<b>Title</b>	<b>Set up machinery, and process and package seed</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>35</b>

<b>Purpose</b>	People credited with this unit standard are able to: select and set up machinery and decontaminate machinery and equipment; process seed lots; visually assess samples of seed against quality standards; and package seed.
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<b>Classification</b>	Agriculture > Seed Dressing
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Legislation and standard relevant to this unit standard include but is not limited to:
  - Health and Safety at Work Act 2015;
  - NZS 8409:2021 *Management of Agrichemicals*, available from [www.standards.govt.nz](http://www.standards.govt.nz); and any subsequent amendments.
- 2 Definitions
 

*Waste* – crop seed in offal.

*Workplace procedures* refer to instructions to staff on policy and procedures which are communicated in verbal or written form. These requirements may include but are not limited to – manufacturers’ instructions, company safety requirements, and industry codes of practice and standards. Workplace procedures must include legislative requirements.
- 3 Quality standards may be standards required by any one, or a combination, of the following:
  - seed processing company;
  - buyer;
  - exporter;
  - country seed is to be exported to;
  - owner of the seed;
  - purity standards listed in AsureQuality Seed Production Standards, available from [www.asurequality.com](http://www.asurequality.com).
- 4 Where seed is to be certified, performance criteria must meet the requirements of workplace procedures and AsureQuality, available from [www.asurequality.com](http://www.asurequality.com) and the production contract specifications between the grower and the seed production owner.

- 5 When processing seed lots, a change of screens or cylinders must be included in the set-up of the machines.
- 6 When processing clover or vegetable seeds a gravity table must be used.
- 7 All evidence presented in this unit standard must be in accordance with workplace procedures.

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## Outcomes and performance criteria

### Outcome 1

Select machinery and processes used to dress a seed lot.

#### Performance criteria

- 1.1 Select machinery in accordance with seed type and any contaminants present.  
  
Range may include but is not limited to – deawner, seed cleaner, cylinders, clover polisher, spiral separator, colour sorter, gravity table;  
evidence of four machines is required.
- 1.2 Select processes to meet quality standards.
- 1.3 Select processes to minimise the amount of rework during processing.
- 1.4 Select processes consistent with the contaminants to be removed from the seed lot.
- 1.5 Select processes to minimise waste.

### Outcome 2

Set up machinery and decontaminate machinery and equipment.

Range deawner, seed cleaner, cylinders, clover polisher, spiral separator, colour sorter, gravity table.

#### Performance criteria

- 2.1 Set-up machinery.
- 2.2 Decontaminate machinery and equipment before and after use.

### Outcome 3

Process seed lots.

Range pre-clean, fine clean, finish;  
one of each is required.  
seed lots may include but are not limited to – brassica, pulse, cereal, vegetable or grass, clover, hemp;  
evidence of three seed lots is required.  
any one of – de-awning, blending, mixing, spiralling, gravity separation is required.

#### Performance criteria

- 3.1 Process seed.
- 3.2 Minimise waste during processing.
- 3.3 Check that processed seed meets quality standards for seed lot and is free of damage.

### Outcome 4

Visually assess samples of seed against quality standards.

Range samples taken from the seed lot and from offal during the processing of a seed lot;  
samples must include at least – one grain crop or pulse crop, and two small seed crops.

#### Performance criteria

- 4.1 Carry out visual assessment of the sample to determine estimate of component percentage.  
  
Range crop seed, other seed, inert material, damage.
- 4.2 Carry out visual assessment of the sample to determine the amount of other seed present in the sample in terms of meeting quality standards.
- 4.3 Carry out visual assessment of the sample to determine the amount of inert material present in the sample in terms of meeting quality standards.
- 4.4 Verify visual assessment by weighing sample.
- 4.5 Carry out visual assessment to ensure it is within quality standards in accordance with weighed sample.

### Outcome 5

Package seed.

**Performance criteria**

- 5.1 Match identification printed on container to reference number, contents, and weight on label.
- 5.2 Verify bulk storage of machine processed seed.
- 5.3 Verify seed lot sizes comply with workplace procedures.
- 5.4 Verify processing return balances with inward weight in terms of workplace requirements.

<b>Planned review date</b>	31 December 2026
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	27 November 1998	31 December 2024
Revision	2	14 August 2002	31 December 2024
Review	3	19 May 2006	31 December 2024
Review	4	24 March 2022	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0052
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

**Comments on this unit standard**

Please contact Muka Tangata - People, Food and Fibre Workforce Development Council [qualifications@mukatangata.nz](mailto:qualifications@mukatangata.nz) if you wish to suggest changes to the content of this unit standard.