

<b>Title</b>	<b>Describe the seed processing industry and seed certification and processing machines</b>		
<b>Level</b>	<b>2</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able to describe: the seed processing industry and the information on a seed processing certificate, seed certification; and seed processing machines, and seed or contaminant characteristics affected by the machine.
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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 relevant to this unit standard includes but is not limited to:
  - Health and Safety at Work Act 2015; and any subsequent amendments.
- 2 Definitions
 

*Contaminants* – other crop seeds and inert material.

*Seeds* – grains, pulses, vegetables, and small seeds such as grass and clover seed.
- 3 New Zealand Seed Varietal Certification Requirements, available from [www.mpi.govt.nz](http://www.mpi.govt.nz).
- 4 Industry publications
  - MPI Quality Management System (QMS) available from [www.mpi.govt.nz](http://www.mpi.govt.nz)
  - AsureQuality Seed Sampling Handbook, available from [www.asurequality.com](http://www.asurequality.com)
  - New Zealand Grain & Seed Trade Association Inc, available from [www.nzgsta.co.nz](http://www.nzgsta.co.nz)
  - Importing Countries Phytosanitary requirements (ICPR), available from [www.mpi.govt.nz](http://www.mpi.govt.nz)

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### Outcomes and performance criteria

#### Outcome 1

Describe the seed processing industry and the information on a seed processing certificate.

**Performance criteria**

- 1.1 Describe New Zealand Seed Processor industry groups in terms of their major roles.
- Range industry groups may include but are not limited to – New Zealand Grain & Seed Trade Association, NZ Plant Breeding and Research Association, and Federated Farmers of New Zealand; evidence of at least three industry groups is required.
- 1.2 Describe information in industry publications in terms of its use in seed processing and a seed processing store.
- Range evidence of at least three industry publications is required.
- 1.3 Describe the information on a seed analysis certificate in terms of its use in seed processing.

**Outcome 2**

Describe seed certification.

**Performance criteria**

- 2.1 Describe Ministry for Primary Industries (MPI) QMS role in the seed processing industry in terms of the New Zealand Seed Varietal Certification requirements.
- Range may include but is not limited to – registration of seed store, application for seed certification, processing procedures, sampling seed, auditing; evidence of two requirements is required.
- 2.2 Describe seed store's role in the New Zealand Seed Certification Scheme in terms of MPI requirements for MPI Approved Organisations.
- Range may include but is not limited to – registration of seed store, processing procedures, sampling seed, applications for seed certification and seed testing, auditing; evidence of three MPI requirements is required.
- 2.3 Describe classes of seed in relation to seed certification.
- Range may include but is not limited to – breeders, basic, first generation, second generation, not certified, tetraploid, hybrid; evidence of four classes of seed is required.

### Outcome 3

Describe seed processing machines, and seed or contaminant characteristics affected by the machine.

Range pre-cleaners, air screens, cylinders, gravity tables, jump machines, discs, spirals, velvet rolls, de-stoners, colour sorters, treaters, de-awners, polishers.

### Performance criteria

3.1 Describe machines in terms of their method of operation.

Range may include but is not limited to – seed lot passing through mesh screens of different sizes, air passing up through seed lot separating different types of seed; evidence of one method of operation is required

3.2 Describe the seed or contaminant characteristics affected by the machine.

Range may include but is not limited to – size, weight, density, length, shape, awns, colour, disease susceptibility, roughness, percentage hard seed; evidence of six characteristics is required.

<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.