

Title	Draw and test a seed sample, and describe contaminants and undesirable weed seeds in samples		
Level	3	Credits	10

Purpose	People credited with this unit standard are able to: draw a sample of seed; carry out a 1000 seed weight test; determine moisture content of seed sample; and describe crop, contaminants, and undesirable weed seeds in both field dressed, and machine dressed seed samples.
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Classification	Agriculture > Seed Dressing
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Available grade	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

Common contaminants – those which are often found in seed lots processed at the store.

Contaminants – crop seeds and inert material.

Seeds – grains, pulses, vegetables, and small seeds such as grass seed, and clover seed.

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 Moisture meters are calibrated for use.
- 4 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 theASUREQuality Seed Sampling Handbook, available from www.asurequality.com.
- 5 In the context of this unit standard, drawing a seed sample covers samples to be used internally by the seed store and does not cover seed samples taken for the Seed Certification Scheme by a certified seed sampler.

- 6 Seeds eligible for certification in New Zealand are listed in MPI Seed Varietal & Phytosanitary Certification Programme - Seed Field Production Standards 2014 available from www.mpi.govt.nz.
- 7 All evidence in this unit standard must be presented in accordance with the Seed Sampling Handbook and workplace procedures.
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Outcomes and performance criteria

Outcome 1

Draw a sample of seed.

Range sample taken from seed stored in – silos, boxes, bags.

Performance criteria

- 1.1 Sample seed lot using methods and frequencies appropriate for seed storage type.
- 1.2 Verify drawn sample is representative of seed lot.
- 1.3 Label sample.

Outcome 2

Carry out a 1000 seed weight test.

Performance criteria

- 2.1 Verify sample taken for test is representative of whole of seed lot.
- 2.2 Carry out test.
- 2.3 Verify test results by a second sample.

Outcome 3

Determine moisture content of seed sample.

Range infra-red heat lamp, moisture meter.

Performance criteria

- 3.1 Carry out moisture content determination.
- 3.2 Verify moisture content by a second sample or a seed laboratory oven test.

Outcome 4

Describe crop, contaminant, and undesirable weed seeds in field dressed and machine dressed seed samples.

Performance criteria

4.1 Describe crop seeds in field dressed and machine dressed seed samples by common name and/or botanical name.

Range at least five crop seed species of those seeds eligible for certification in New Zealand is required.

4.2 Describe contaminant seeds in field dressed and machine dressed seed samples by common name and botanical name.

Range at least six common contaminant seeds for each of the following groups of seed samples is required – grasses, clovers, cereals, brassicas, non-clover legumes, pulses, vegetables.

4.3 Describe undesirable weed seeds by common and botanical name.

Range evidence of at least twelve weed seeds is required.

4.4 Describe contaminants other than seeds by common name.

Range evidence of at least three contaminants is required.

Planned review date	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

Consent and Moderation Requirements (CMR) reference	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 if you wish to suggest changes to the content of this unit standard.