

Demonstrate knowledge of the seed processing industry and seed processing machines

Level 2

Credits 2

Purpose This unit standard is for people working or wishing to work in the seed processing industry.

People credited with this unit standard are able to demonstrate knowledge of the seed processing industry, seed certification and seed processing machines.

Subfield Agriculture

Domain Seed Dressing

Status Registered

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Entry information Open.

Accreditation Evaluation of documentation by NZQA and industry.

Standard setting body (SSB) Primary Industry Training Organisation

Accreditation and Moderation Action Plan (AMAP) reference 0052

This AMAP can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Special notes

- 1 Definitions
Seeds – grains, pulses, vegetables, and small seeds such as grass and clover seed.
Contaminants – other crop seeds and inert material.
- 2 New Zealand Seed Certification Scheme is described in *Plants Biosecurity Seed Certification Field and Laboratory Standards* (MAF Plants Biosecurity, published annually) available from AgriQuality Ltd, Christchurch.

- 3 Industry publications
MAF Plants Biosecurity *Seed Certification Field and Laboratory Standards* (MAF Plants Biosecurity, published annually).
NZ Seed Quality Management Authority, *Seed Store Operating Manual* (AgriQuality Ltd, 2006).
AgriQuality Ltd, *Export Seed Inspectors Handbook* (AgriQuality Ltd, December 2003).
All AgriQuality publications are available from AgriQuality Ltd, freephone 0508 001122.
ICPR (Importing Countries Phytosanitary requirements) available from <http://www.biosecurity.govt.nz/exports/plants/icpr-register.htm>.

Elements and performance criteria

Element 1

Demonstrate knowledge of the seed processing industry.

Performance criteria

- 1.1 NZ Seed Processing Inc, and industry groups are described in terms of their major roles.

Range evidence is required for at least three industry groups.

- 1.2 Information in industry publications is described in terms of its use in seed processing and a seed processing store.

Range evidence is required for at least three industry publications.

- 1.3 The information on a seed analysis certificate is described in terms of its use in seed processing.

Element 2

Demonstrate knowledge of seed certification.

Performance criteria

- 2.1 MAF Quality Management's role in the seed processing industry is described in terms of the New Zealand Seed Certification Scheme.

Range registration of seed store, application for seed certification, processing procedures, sampling seed, auditing.

- 2.2 Seed stores role in the New Zealand Seed Certification Scheme is described in terms of MAF Quality Management's requirements.

Range registration of seed store, processing procedures, sampling seed, applications for seed certification and seed testing, auditing.

2.3 Classes of seed are described in relation to seed certification.

Range breeders, basic, first generation, second generation, not certified, tetraploid, hybrid.

Element 3

Demonstrate knowledge of seed processing machines.

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 Machines are described in terms of their method of operation.

Range examples are – seedlot passes through mesh screens of different sizes, air passing up through seedlot separating different types of seed.

3.2 The seed and/or contaminant characteristic affected by the machine is identified.

Range size, weight, density, length, shape, awns, colour, disease susceptibility, roughness, percentage hard seed.

Please note

Providers must be accredited by the Qualifications Authority, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by the Qualifications Authority before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact the Primary Industry Training Organisation standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.