

## Operate and maintain machinery and equipment in a seed processing store

**Level** 3

**Credits** 15

**Purpose** This unit standard is for people working in the seed processing industry.

People credited with this unit standard are able to: use seed handling equipment; use machinery and equipment; maintain machinery and equipment; weigh seeds on weigh scales; and maintain seed store standards.

**Subfield** Agriculture

**Domain** Seed Dressing

**Status** Registered

**Status date** 19 May 2006

**Date version published** 19 May 2006

**Planned review date** 31 December 2011

**Entry information** Recommended: Unit 15605, *Use safe work practices in a seed processing store*, or demonstrate equivalent knowledge and skills.

**Accreditation** Evaluation of documentation and visit by NZQA, industry and teaching professional in the same field from another provider.

**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>.

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### Special notes

- 1 Definitions  
*Seeds* – grains, pulses, vegetables, and small seeds such as grass and clover seed.  
*Contaminants* – other crop seeds and inert material.  
*Waste* – crop seed in offal.

- 2 Where seed is to be certified performance criteria referring to *the Manual* must meet the requirements of company procedures and the NZ Seed Quality Management Authority, *Seed Store Operating Manual* (AgriQuality Ltd, 2006), available from AgriQuality Ltd, freephone 0508 001122.
- 3 *Company procedures* refer to the documented procedures for seed processing, and comply with the Health and Safety in Employment Act 1992.

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## Elements and performance criteria

### Element 1

Use seed handling equipment.

Range at least two of – augers, tubulators, cup elevators.

#### Performance criteria

- 1.1 Allocated storage area is checked in accordance with company procedures.
- 1.2 Equipment and machinery are free of contamination before use.
- 1.3 Speed and height of equipment and machinery are adjusted to match storage and seed type.
- 1.4 Seed is not damaged during handling.
- 1.5 Waste is minimised during handling.
- 1.6 Equipment and machinery are used in accordance with manufacturer's recommendations and company procedures.
- 1.7 Equipment and machinery are left ready for further use in accordance with company procedures.
- 1.8 Failure of equipment and machinery is notified and reported in accordance with company procedures.

### Element 2

Use machinery and equipment.

Range at least three of – bag sewers, dust extractors, air compressors, vacuum cleaners, ladders.

#### Performance criteria

- 2.1 Failure of equipment and machinery is notified and reported in accordance with company procedures.

- 2.2 Manufacturer and company safety procedures are followed when operating machines and equipment.  
Range operational procedures, safety guards, safety checks.
- 2.3 Operation of machines and use of equipment does not place self and others at risk of injury.
- 2.4 Protective clothing and equipment are selected for the task and worn in accordance with company procedures.  
Range may include but is not limited to – face mask, goggles, ear plugs, safety boots, overalls.
- 2.5 Loose body accessory items are protected or removed when working with machinery and equipment in accordance with company specifications and procedures.
- 2.6 Hazardous objects in working areas are removed, disposed of, or stored in accordance with company procedures.
- 2.7 Where safe practices cannot be used the machines are not operated and a supervisor notified in accordance with company procedures.  
Range protective clothing, protective equipment, machine and equipment function and operation, hazardous objects.

### **Element 3**

Maintain machinery and equipment.

Range machinery and equipment – augers, tubulators, cup elevators, bag sewers, extractors, air compressors, vacuum cleaners, ladders; evidence is required for at least five types of machinery.

### **Performance criteria**

- 3.1 Minor repairs are carried out without risk of injury to self or others, and equipment or machinery is returned to service with minimum down time, in accordance with company procedures.
- 3.2 Preventative maintenance is carried out in accordance with manufacturers' recommendations and company procedures.
- 3.3 Preventative maintenance is carried out in accordance with the equipment maintenance schedule.
- 3.4 Minor repairs are carried out on machinery and equipment, and are recorded in accordance with company procedures.

## **Element 4**

Weigh seeds on weigh scales.

### **Performance criteria**

- 4.1 Weigh scales are used in accordance with manufacturer's recommendations and company procedures.
- 4.2 Scales used are certified to standards of Trade Measurement Unit of the Ministry of Consumer Affairs.
- 4.3 Records of seeds weighed and their weight are kept in accordance with company procedures.
- 4.4 Weight of filled container is within tolerances in the Manual and company procedures.

## **Element 5**

Maintain seed store standards.

### **Performance criteria**

- 5.1 Blocks and alleyways are clearly identified in accordance with the Manual and company procedures.
- 5.2 Containers of dressed seed are free of dust and surface seed, and are in a condition in accordance with the Manual and company procedures.
- 5.3 Presence of vermin and storage pests is identified, and action is taken to control them in accordance with the Manual and company procedures.
- 5.4 Offal is segregated from the machine area and kept away from seed in accordance with the Manual and company procedures.
- 5.5 Seedlots are positioned in accordance with the Manual and company procedures.
- 5.6 Floors around the processing area are kept clean in accordance with the Manual and company procedures.

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### **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.

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**Comments on this unit standard**

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