

## Demonstrate knowledge of fertiliser, and the implications for handling and spreading fertiliser

**Level** 3

**Credits** 2

**Purpose** People credited with this unit standard are able to demonstrate knowledge of: fertiliser; fertiliser compounds, blends, and mixtures, and their compatibility; and fertiliser specifications and the implication for fertiliser handling.

**Subfield** Agriculture

**Domain** General Agriculture

**Status** Registered

**Status date** 19 April 2002

**Date version published** 20 May 2008

**Planned review date** 31 December 2010

**Entry information** Open.

**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 The reference for this unit standard is *The Spreadmark Code of Practice*. Refer to this document for acceptable use of industry specific terms, unless stated otherwise. *The Spreadmark Code of Practice* is updated regularly and is available from Federated Farmers, PO Box 414, Ashburton.
- 2 Legislation relevant to this unit standard includes but is not limited to the – Agricultural Compounds and Veterinary Medicines Act 1997, Hazardous Substances and New Organisms Act 1996, Health and Safety in Employment Act 1992, Land Transport Act 1998, Resource Management Act 1991, and their subsequent amendments.

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## Elements and performance criteria

### Element 1

Demonstrate knowledge of fertiliser.

Range includes but is not limited to – organic, compost, liquid;  
evidence is required for at least two organic, two compost, and two liquid.

### Performance criteria

1.1 Fertilisers are identified in terms of type.

Range organic, compost, liquid.

1.2 Fertilisers are described in terms of the forms available.

Range solid, liquid.

1.3 Fertilisers are described in terms of the major constituent nutrients and trace elements.

Range evidence is required for at least nine nutrients and six trace elements.

1.4 Fertilisers are described in terms of nutrient content relative to bulk.

1.5 Fertilisers are described in terms of their properties and applications.

### Element 2

Demonstrate knowledge of fertiliser compounds, blends, and mixtures, and their compatibility.

Range evidence is required for at least two compounds, two blends, and two mixtures.

### Performance criteria

2.1 Fertiliser compounds, blends, and mixtures are described in terms of their usage.

2.2 Fertiliser compounds, blends, and mixtures are described in terms of chemical and physical compatibility, and implications for handling and transport.

2.3 Fertiliser compounds, blends, and mixtures are described in terms of chemical and physical compatibility, and implications for spreading.

### Element 3

Demonstrate knowledge of fertiliser specifications and the implication for fertiliser handling.

#### Performance criteria

3.1 Fertiliser specifications are described in terms of their significance for equipment adjustment.

Range particle size (SGN), bulk density (BD), uniform index (UI).

3.2 Fertiliser specifications are described in terms of the methods of measurement in the field using sieve and volume boxes.

Range SGN, BD.

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#### Please note

Providers must be accredited by NZQA, 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 NZQA 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.