

## Demonstrate knowledge of land management in primary production

**Level** 4

**Credits** 5

**Purpose** People credited with this unit standard are able to: demonstrate knowledge of the land management practices which contribute to damage to soil structure; describe the importance of sustainable land use and the main forms and causes of erosion; and describe prevention and control methods for the main forms of erosion.

**Subfield** Agriculture

**Domain** General Agriculture

**Status** Registered

**Status date** 20 May 2008

**Date version published** 20 May 2008

**Planned review date** 31 December 2013

**Entry information** Open.

**Replacement information** This unit standard and unit standard 19140 replaced unit standard 51.

**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 Legislation and regulatory requirements relevant to this unit standard include – the Resource Management Act 1991, and its subsequent amendments; and local and regional Council by-laws.
- 2 Reference  
*Code of Practice for Nutrient Management*, New Zealand Fertiliser Manufacturer's Research Association Incorporated (NZFMRA), 2007, available from <http://www.fertresearch.org.nz>.

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## Elements and performance criteria

### Element 1

Demonstrate knowledge of the land management practices which contribute to damage to soil structure.

Range cultivation techniques, animal grazing techniques, water hole management, concentration of livestock, heavy vehicle traffic.

### Performance criteria

- 1.1 Land management practices are described in terms of their effect on sustainable soil structures.
- 1.2 Unsustainable land management practices are described in terms of their short and long term consequences to soil and farm productivity.

### Element 2

Describe the importance of sustainable land use and the main forms and causes of erosion.

### Performance criteria

- 2.1 The reasons for sustainable land use are described in terms of economic consequences for the producer and New Zealand, in the short term and medium to long term.
- 2.2 The main forms of erosion are described and their secondary and subsequent effects outlined.  
  
Range animal-induced, wind-induced, water-induced (fresh and sea), over cultivation-induced.
- 2.3 Erosion is described in terms of the substantial causes and contributing factors.  
  
Range climate, topography, vegetation, soil, human factors.

### Element 3

Describe prevention and control methods for the main forms of erosion.

### Performance criteria

- 3.1 Practices which prevail in the industry are described for prevention and control of water-induced, animal-induced, and wind-induced erosion.

- 3.2 Prevention and control methods are described for river-induced and coastal erosion.
- Range retaining, planting, limitations on use, river control.
- 3.3 Main methods for stabilising slopes are described in terms of planting, retaining, limitations on use, and runoff control.

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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.