

<b>Title</b>	<b>Demonstrate knowledge of waste treatment and environmental management in a primary industry operation</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	<p>This theory-based entry-level unit standard is for people who are responsible for applying environmental practices in their work area, in a primary industry operation.</p> <p>People credited with this unit standard are able to demonstrate knowledge of: legislative requirements for environmental protection; an environmental management system; waste discharges and their potential effects on the environment; and waste water treatment systems, in a primary industry operation.</p>
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<b>Classification</b>	Primary Sector > Primary Sector Resources Management
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 All evidence presented in this unit standard must be in accordance with:
  - Organisational requirements
  - AS/NZS 14001:2004 *Environmental management systems*
  - Animal Products Act 1999
  - Food Act 2016
  - Hazardous Substances and New Organisms Act 1996
  - Health and Safety at Work Act 2015
  - Resource Management Act 1991; and any subsequent amendments.
- 2 Definition  
*Organisational requirements* – instructions to staff on policies and procedures which are documented in memo, electronic or manual format and are available in the workplace.

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### Outcomes and Performance criteria

#### Outcome 1

Demonstrate knowledge of legislative requirements for environmental protection in a primary industry operation.

**Performance criteria**

- 1.1 Describe legislative requirements for environmental protection in terms of their purpose.
- 1.2 Describe legislative requirements for environmental protection in terms of responsibilities of employees and employers.

**Outcome 2**

Demonstrate knowledge of an environmental management system used in a primary industry operation.

**Performance criteria**

- 2.1 Describe an environmental management system used in a primary industry operation in terms of its purpose and function.
- 2.2 Describe an environmental management system in terms of its requirements and company responsibilities.
- 2.3 Describe the process for identifying environmental aspects of a company's activities.
- 2.4 Describe the process for monitoring an environmental system in terms of record keeping and audit requirements.

**Outcome 3**

Demonstrate knowledge of waste discharges and their potential effects on the environment in a primary industry operation.

**Performance criteria**

- 3.1 Identify and describe waste discharges in terms of their characteristics.  
  
Range evidence is required of two types of waste discharges.
- 3.2 Describe waste discharges in terms of their potential effects on the environment.  
  
Range evidence is required of two potential effects for each of the waste discharges identified in 3.1.
- 3.3 Describe sampling, testing and monitoring of wastewater and the receiving environment in terms of methods and sources of error.

**Outcome 4**

Demonstrate knowledge of waste water treatment systems in a primary industry operation.

**Performance criteria**

- 4.1 Describe the process of pre-treatment for waste water in terms of the purpose and methods used.
- 4.2 Describe biological waste water treatment in terms of the purpose and process used.
- 4.3 Describe land-based treatment systems in terms of their purpose and types.

<b>Replacement information</b>	This unit standard replaced unit standard 4303.
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<b>Planned review date</b>	31 December 2023
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**Last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	18 June 2015	31 December 2021
Review	2	27 September 2018	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0022
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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 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.