

Title	Demonstrate knowledge of energy and chemical plant pollutants and their control measures		
Level	3	Credits	5

Purpose	<p>This unit standard is intended for people working as boiler and energy and chemical process operators.</p> <p>People credited with this unit standard are able to demonstrate knowledge of: pollutants; pollutant control compliance measures; and employer and employee responsibilities relating to pollutants under the Resource Management Act (RMA), in an energy and chemical plant.</p>
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Classification	Energy and Chemical Plant > Safety and Legislation for Energy and Chemical Plant
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Available grade	Achieved
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Guidance Information

- 1 Legislation and regulations relevant to this unit standard include but are not limited to:
 - Health and Safety at Work Act 2015;
 - Health and Safety at Work (Hazardous Substances) regulations 2017 (HSWA);
 - Resource Management Act (RMA) 1991; and any subsequent amendments.
- 2 Definitions

Energy and chemical plant may be in – petrochemical, agri-nutrient, power generation, dairy processing, meat processing, and wood fibre manufacturing, or other plants that operate with a combination of high temperatures, pressures, steam and/or chemicals in gas, liquid or solid form.

Organisational requirements – documented policies and procedures. These may include: equipment manufacturers' procedures; plant procedures; suppliers' instructions; site signage; codes of practice; company health and safety plans; on site briefings; and supervisor's instructions. This includes all regulatory and legislative obligations that apply to the plant.
- 3 For the purposes of assessment:
 - evidence for all outcomes must be presented in accordance with organisational requirements.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of pollutants in an energy and chemical plant.

Performance criteria

- 1.1 Identify and describe air pollutants in terms of their environmental impacts.
- 1.2 Identify and describe water pollutants in terms of their environmental impacts.
- 1.3 Identify and describe noise pollutants in terms of their type, level, and environmental impacts.
- 1.4 Identify and describe ground pollutants in terms of their environmental impacts.

Outcome 2

Demonstrate knowledge of pollutant control compliance measures in an energy and chemical plant.

Performance criteria

- 2.1 Describe plant contingency plans and procedures for pollutant control in terms of actions required.
- 2.2 Describe processes for monitoring, testing, analysing, and reporting of pollution levels.
- 2.3 Identify the location of site-specific resource consents.

Outcome 3

Demonstrate knowledge of employer and employee responsibilities relating to pollutants under the Resource Management Act (RMA) in an energy and chemical plant.

Performance criteria

- 3.1 Describe employee responsibilities within the plant in terms of the RMA.
- 3.2 Describe employer responsibilities within the plant in terms of the RMA.
- 3.3 Describe penalties for breach of responsibilities in terms of the RMA.
- 3.4 Describe processes for ensuring plant systems are compliant with the RMA.

Range evidence of one process is required.

Replacement information	This unit standard was replaced by skill standard 40367.
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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 June 2005	31 December 2014
Rollover and Revision	2	25 July 2006	31 December 2014
Review	3	22 May 2009	31 December 2016
Review	4	24 October 2014	31 December 2022
Review	5	27 February 2020	31 December 2026
Review	6	30 January 2025	31 December 2026

Consent and Moderation Requirements (CMR) reference	0079
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.