

Title	Inspect pipeline stations in an energy and chemical plant		
Level	3	Credits	3

Purpose	<p>People credited with this unit standard are able to: inspect the security of pipeline stations in an energy and chemical plant, and describe actions required in the event of a security breach; inspect integrity of pipeline stations and describe hazard control measures; and identify documentation and reporting requirements and communicate findings; in an energy and chemical plant.</p>
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Classification	Energy and Chemical Plant > Monitoring of Energy and Chemical Plant
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Available grade	Achieved
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Guidance Information

- 1 Legislation relevant to this unit standard includes but is not limited to:
 - Health and Safety at Work Act 2015;
 - Health and Safety at Work (Hazardous Substances) Regulations 2017 (HSWA);
 - Resource Management Act 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.

Plant – the operational unit, equipment and/or workplace at which the person is working.
- 3 For the purposes of assessment:
 - evidence for the practical components of this unit standard must be supplied from the workplace.
 - evidence for all outcomes must be presented in accordance with organisational requirements.

Outcomes and performance criteria

Outcome 1

Inspect the security of pipeline stations in an energy and chemical plant, and describe actions required in the event of a security breach.

Performance criteria

1.1 Inspect the integrity of security systems.

Range may include – compound, buildings, fencing, locks, alarm systems, camera systems.

1.2 Describe the actions required in the event of a security breach.

Outcome 2

Inspect integrity of pipeline stations and describe hazard control measures in an energy and chemical plant.

Performance criteria

2.1 Identify pipeline station hazards and describe control measures.

Range pipeline product, process conditions, chemicals, electricity, static spark risk, earthing, vegetation.

2.2 Locate pipeline station plans and drawings and use to assist the inspection.

2.3 Check all pipeline station signs are correct and in legible condition.

2.4 Check equipment and systems associated with the station for correct operation and condition.

Range may include – fire detection, air conditioning, gas detection, communication equipment, power supply, control and shutdown equipment, Cathodic Protection equipment, chemical storage and dosing systems, site air and water utilities, site safety equipment, fencing, sumps and drains, lighting, weed control, vermin control.

2.5 Carry out leak detection on the pipeline station and take corrective action if required.

Range all flanges, instrument tubing, connections, valve stems, any joint where product could leak.

Outcome 3

Identify documentation and reporting requirements and communicate inspection findings in an energy and chemical plant.

Performance criteria

3.1 Identify station documentation and reporting requirements.

Range may include – station logs, chemical dosing logs, chemical inventory, product inventory, maintenance requests, station routines, check sheets.

3.2 Notify supervisor of station status and personnel movements.

Replacement information	This unit standard was replaced by skill standard 40359.
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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	6 February 1997	31 December 2018
Revision	2	3 August 2000	31 December 2018
Review	3	24 January 2002	31 December 2018
Review	4	20 February 2009	31 December 2018
Rollover and Revision	5	20 April 2017	31 December 2022
Review	6	27 February 2020	31 December 2026
Review	7	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>.