

<b>Title</b>	<b>Perform and record leakage surveys in a gas network</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>6</b>

<b>Purpose</b>	People credited with this unit standard are able to: locate and identify procedures, documentation, and equipment for leakage surveys; perform a gas leakage survey; and complete reporting and documentation.
----------------	--

<b>Classification</b>	Gas Industry > Gas Network Operations
-----------------------	---------------------------------------

<b>Available grade</b>	Achieved
------------------------	----------

### Guidance Information

- 1 This unit standard is intended for, but not limited to, workplace assessment. The range statements relate to enterprise specific equipment, procedures, and processes.
- 2 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable manufacturer's specifications, company procedures and legislative requirements.
- 3 Performance of the outcomes of this unit standard must comply with the following:  
Health and Safety at Work Act 2015;  
Health and Safety in Employment (Pipelines) Regulations 1999;  
Gas Act 1992;  
Gas (Safety and Measurement) Regulations 2010;  
Resource Management Act 1991;  
Hazardous Substances and New Organisms Act 1996;  
*AS/NZS 4645.1:2008 Gas distribution networks – Network management;*  
*AS/NZS 4645.2:2008 Gas distribution networks – Steel pipe systems;*  
*AS/NZS 4645.3:2008 Gas distribution networks – Plastic pipe systems;*  
*AS 2885.3-2012 Pipelines – Gas and liquid petroleum Operation and maintenance.*
- 4 References  
Australian standards (AS) may be found at [www.standards.org.au](http://www.standards.org.au);  
Australian/New Zealand standards (AS/NZS) may be found at [www.standards.govt.nz](http://www.standards.govt.nz).
- 5 Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.
- 6 Survey technique may be either walking or in a vehicle. Where a vehicle leakage survey is being undertaken, candidates must have the appropriate driver licence for

the vehicle being used and have competence in the use of the vehicle's leakage detection equipment.

## 7 Definition

*Company procedures* mean the documented methods for performing work activities, and include health and safety, operational, environmental, and quality management requirements. They may refer to legislation, regulations, guidelines, standard operating procedures, manuals, codes of practice, or policy statements.

---

## Outcomes and performance criteria

### Outcome 1

Locate and identify procedures, documentation and equipment for a leakage survey.

#### Performance criteria

- 1.1 Documentation and company procedures for leakage surveys are located and interpreted for the specified jobs requirements.
- 1.2 Job instructions are confirmed.
- Range instructions may include – defined route, network plans, consents, easements, frequency of survey.
- 1.3 Potential environmental and safety risks are identified.
- 1.4 Types and function of equipment and materials for a leakage survey are identified and described
- Range may include – gas detector, marking equipment, mark-out paint or chalk, recording equipment,
- 1.5 Potential risks of incorrect application and operation of equipment and procedures, and the steps to avoid them are described.
- 1.6 Resource requirements are identified and sourced.
- Range may include – plant, tools, materials, documentation, system components, personnel, communication equipment, weather protection, personal protective equipment, vehicle.

### Outcome 2

Perform a gas leakage survey.

**Performance criteria**

2.1 Safety and environmental risks are identified, and controlled.

Range risks may include – fire, explosion, asphyxiation, excavations, gas escapes;  
controls may include – signage, barriers, personal protective equipment, safe access and egress, environmental protection, temporary traffic control, mobile operations.

2.2 Survey areas are identified.

Range may include – gas network status, gas network type, pipe material, pressure.

2.3 Issues with performing the survey are identified and managed.

Range accessibility, location and ground surface conditions, traffic, weather.

2.4 Readings are taken along defined route.

Range location, classification, escalation.

**Outcome 3**

Complete reporting and documentation.

**Performance criteria**

3.1 Information is communicated to internal and external parties.

Range may include – event report, survey completion notice, special conditions, additional work.

3.2 Records and documents are completed and processed.

<b>Replacement information</b>	This unit standard was replaced by unit standard 32330 and unit standard 32331.
--------------------------------	---

**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	17 August 2017	31 December 2023
Review	2	27 May 2021	31 December 2023

<b>Consent and Moderation Requirements (CMR) reference</b>	0014
--	------

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

This unit standard is expiring