

<b>Title</b>	<b>Draft information for as-built drawings for a gas network</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able to: demonstrate knowledge of procedures, documentation and equipment for as-built drawings for a gas network; identify and record the required information for an as-built drawing for a specified job; and complete reporting and documentation.
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<b>Classification</b>	Gas Industry > Gas Network Construction
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 This unit standard is intended for, but is 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. This includes the knowledge and use of suitable tools and equipment.
- 3 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the current version of:  
Health and Safety at Work Act 2015;  
Resource Management Act 1991;  
Excavation Safety good practice guidelines ISBN 978-0-908336-49-4 (online);  
AS/NZS 4645.1:2018 *Gas distribution networks – Network management*;  
AS/NZS 4645.2:2018 *Gas distribution networks – Steel pipe systems*;  
AS/NZS 4645.3:2018 *Gas distribution networks – Plastic pipe systems*;  
AS/NZS 2885.1-2018 *Pipelines – Gas and liquid petroleum Design and construction*;  
AS 2885.3-2012 *Pipelines – Gas and liquid petroleum Operation and maintenance*;  
and any subsequent amendments and replacements.
- 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 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

Demonstrate knowledge of procedures, documentation and equipment for as-built drawings for a gas network.

#### Performance criteria

- 1.1 Documentation and company procedures for as-built drawings are located and interpreted.
- Range may include – surveys, construction drawing, reports, job cards, reference points, network drawing, network symbology.
- 1.2 Job instructions are confirmed.
- Range instructions may include – site location, utility plans, new gas asset mark-out, consents, easements.
- 1.3 Potential environmental and safety hazards are identified and controlled.
- Range hazards may include – gas escape, other utilities, excavations, animals, vehicles, general public; evidence of four hazards is required; controls may include – signage, barriers, personal protective equipment, safe access and egress, temporary traffic control; evidence of four different controls is required.
- 1.4 Types and function of measuring and drawing equipment are identified and described.
- Range may include – measuring wheels, measuring tapes, digital; measuring equipment – GPS, laser.
- 1.5 Measurement terminology and abbreviations are identified and interpreted according to industry usage.
- Range may include – leader line, intersecting arcs, accuracy, tolerance, dimension rounding, boundary markers, permanent features.

### Outcome 2

Identify and record the required information for an as-built drawing for a specified job.

**Performance criteria**

2.1 Gas assets, features and reference points are identified.

Range assets may include – pipe fittings, valves, tracer wire, inserted pipe duct size and type, bends, risers, manifolds, steel cased crossing, bridge crossing, plastic ducts, reducers, end caps, anodes, rectifier, cathodic protection monitoring points, electrical bonding and cable routes, gauges and instruments, asset tags; features may include – pipe protection, decommissioned line, squeeze off points, transition sections; reference points may include – section boundaries, house numbers, kerbs, fire hydrants, manhole lids, power poles, abbreviations, length, offsets, structures; buildings, bridges.

2.2 Gas assets, features and reference points are recorded on the as-built drawing.

Range may include – size, type, depth, material, pressure.

**Outcome 3**

Complete reporting and documentation.

**Performance criteria**

3.1 Information is communicated to internal and external parties.

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

3.2 Records and documents are completed and processed.

<b>Planned review date</b>	31 December 2024
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	23 July 1997	31 December 2018
Revision	2	3 August 2000	31 December 2018
Review	3	22 October 2002	31 December 2018
Rollover and Revision	4	20 November 2006	31 December 2020
Review	5	17 August 2017	31 December 2021
Revision	6	30 August 2018	31 December 2021
Review	7	27 February 2020	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0014
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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### Comments on this unit standard

Please contact MITO New Zealand Incorporated [info@mito.org.nz](mailto:info@mito.org.nz) if you wish to suggest changes to the content of this unit standard.