

<b>Title</b>	<b>Use a Holiday detector on a steel gas pipeline</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	People credited with this unit standard are able to: demonstrate knowledge of documentation, company procedures, hazards, and equipment for using a Holiday detector to find coating faults on steel pipes; use Holiday detection equipment to detect coating faults on steel gas pipelines; 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 the:
  - Health and Safety at Work Act 2015;
  - AS/NZS 4645.1:2018 *Gas distribution networks – Network management*;
  - AS/NZS 4645.2:2018 *Gas distribution networks – Steel pipe systems*;
  - AS 2885.1-2018 *Pipelines – Gas and liquid petroleum Design and construction*;
  - AS 2885.3-2018 *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 Definitions**

*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.

*Holiday* in relation to an anticorrosive surface coating means a discontinuity in coating, a pinhole or crack within the coating or improper adhesion or bonding of the coating.

**Outcomes and performance criteria****Outcome 1**

Demonstrate knowledge of documentation, company procedures, hazards, and equipment for using a Holiday detector to find coating faults on steel pipes.

**Performance criteria**

1.1 Documentation and company procedures for detecting coating faults on steel pipelines using a Holiday detector are located and interpreted.

Range may include – network standard, equipment operating manuals, standard operating procedure, safe work procedure, work instruction, job hazard analysis, job risk assessment.

1.2 Documentation and instructions for a specified job are obtained.

Range instructions may include – site location, pipe and coating type, test settings.

1.3 Potential environmental and safety hazards and controls are described.

Range hazards may include – excavations, electrocution, personal injury, restricted access;  
controls may include – personal protective equipment, safe access and egress.

1.4 Components of Holiday detection equipment are described.

Range spring, brush, earth wire, control box, carrying strap, wand, battery, alarm.

1.5 Potential faults associated with incorrect application and operation of equipment and the steps to avoid them are described.

**Outcome 2**

Use Holiday detection equipment to detect coating faults on steel gas pipelines.

**Performance criteria**

2.1 Safety and environmental hazards are identified and controlled.

Range hazards may include – personal injury, restricted access, excavations, electrocution;  
controls may include – personal protective equipment, safe access and egress.

2.2 Holiday detector equipment is prepared.

2.3 Pipeline criteria is assessed, and holiday inspection requirements are confirmed.

Range pipeline criteria include – pipe location, pipe size, coating materials, coating thickness, coating condition;  
inspection requirements include – probe type, voltage level.

2.4 Coating faults on a steel gas pipeline are detected.

**Outcome 3**

Complete reporting and documentation.

**Performance criteria**

3.1 Records and documents are completed and processed, and information is communicated to internal and external parties as required.

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

<b>Planned review date</b>	31 December 2025
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	19 June 1997	31 December 2018
Revision	2	3 August 2000	31 December 2018
Review	3	22 October 2002	31 December 2018
Review	4	20 November 2006	31 December 2020
Review	5	17 August 2017	31 December 2023
Revision	6	30 August 2018	31 December 2023
Review	7	27 May 2021	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.