

Title	Cut, thread, and join steel pipes in a gas network		
Level	3	Credits	3

Purpose	People credited with this unit standard are able to, in a gas network: demonstrate knowledge of procedures, documentation, and equipment for cutting, threading and joining steel pipes; cut, thread, and join steel pipes; and complete reporting and documentation.
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Classification	Gas Industry > Gas Network Construction
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Available grade	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 2885.1-2018 *Pipelines – Gas and liquid petroleum Design and construction*;
and any subsequent amendments and replacements.
- 4 References
Australian standards (AS) may be found at www.standards.org.au;
Australian/New Zealand standards (AS/NZS) may be found at 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 cutting, threading and joining steel pipes in a gas network.

Performance criteria

- 1.1 Documentation and company procedures for cutting, threading, and joining steel pipes are located and interpreted in relation to specified job requirements.
- 1.2 Job instructions are confirmed.
- Range instructions may include – site location, consents.
- 1.3 Potential environmental and safety hazards are identified and controlled.
- Range hazards may include – manual handling, oil spill, swarf removal, personal injury, mechanical equipment, static electricity; evidence of four hazards is required; controls may include – personal protective equipment, environmental protection, drop trays, absorbent material, waste disposal; handling and lifting techniques; continuity bond, machine guards; evidence of four different controls is required.
- 1.4 Types and function of cutting, threading, and jointing equipment and materials are identified and described.
- Range stocks and dies, threading machine, pipe cutters, bonding cable, cutting paste, oil, jointing materials, fittings, pipe reamers, thread type, pipe size, pipe pressure rating, pipe specification.
- 1.5 Potential faults associated with the incorrect application and operation of equipment, and the steps to avoid them are described.
- Range incorrect thread type, incorrect pipe or fitting specification, inadequate joint, coating damage, pipe damage, insufficient cutting compound, multi-pass cutting.
- 1.6 Resource requirements are identified and sourced.
- Range tools, materials, personal protective equipment.

Outcome 2

Cut, thread, and join steel pipes.

Performance criteria

- 2.1 Cutting, threading, and jointing materials and equipment are prepared, handled, and positioned.
- 2.2 Steel pipes are cut, threaded, and joined.
- 2.3 Worksite is cleaned and waste products disposed of safely.

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.

Planned review date	31 December 2026
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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
Rollover and Revision	4	20 November 2006	31 December 2018
Review	5	17 August 2017	31 December 2021
Review	6	27 February 2020	N/A
Rollover	7	30 January 2025	N/A

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

Comments on this unit standard

Please contact Waihangara Rau Construction and Infrastructure Workforce Development Council qualifications@waihangaraarau.nz if you wish to suggest changes to the content of this unit standard.