# Title
Insert a polyethylene pipe into a casing pipe in a gas network

<table>
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<th>Level</th>
<th>Credits</th>
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<tbody>
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<td>6</td>
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## Purpose
People credited with this unit standard are able to, in a gas network: locate and identify insertion equipment, procedures, and documentation; prepare to insert and insert a polyethylene gas pipe into a casing pipe; reinstate site; and complete reporting and documentation.

## Classification
Gas Industry > Gas Network Construction

## Available grade
Achieved

## 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.

3. Performance of the outcomes of this unit standard must comply with the following:
   - Health and Safety at Work Act 2015;
   - Resource Management Act 1991;
   - Excavation Safety good practice guidelines ISBN 978-0-908336-49-4 (online);

4. References
   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. This unit standard excludes live insertion.

7. Definitions
   - **Casing pipe** is a duct through which runs a smaller pipe (carrier pipe). The duct that protects the smaller pipe is usually made of cast iron, steel, or polyethylene.
   - **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 insertion equipment, procedures, and documentation.

Performance criteria

1.1 Documentation and company procedures for inserting polyethylene pipe in a casing pipe are located and interpreted in relation to specified job requirements.

1.2 Job instructions are confirmed.

Range instructions may include – site location, utility plans, mark-outs, consents, easements.

1.3 Potential environmental and safety risks are identified.

1.4 Types and functions of insertion equipment and materials are identified and described.

Range equipment may include – pipes, spacers, seals, casings, jointing, fittings, cutting tools, parachute, draw wire, tow rope or wire, pull through rod, winch, anti-shear coupling; functions may include – casing pipe size, insertion pipe size, protection.

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 plant, tools, materials, documentation, system components, personnel, communication equipment, personal protective equipment.

Outcome 2

Prepare to insert and insert a polyethylene gas pipe into a casing pipe.

Performance criteria

2.1 Safety and environmental risks are identified, and controlled.

Range risks may include – gas escape, fire, explosion, asphyxiation, other utilities, excavations; controls may include – signage, barriers, personal protective equipment, safe access and egress, temporary traffic control, environmental protection.
2.2 Casing pipe is prepared.
Range opened, clean, dry, tested for presence of gas, free of obstruction, no sharp edges.

2.3 Carrier pipe is prepared.
Range may include – tow wire, draw wire, tracer wire, winch, winch head, anti-shear coupling, pull through rod.

2.4 Carrier pipe is inserted in casing pipe and ends are sealed.
Range carrier pipe, casing pipe, abandoned casing pipe connections.

Outcome 3
Reinstate site.

Performance criteria

3.1 Equipment and materials left temporarily on site are stored safely and securely, or arrangements are made for their collection.

3.2 Tools, equipment, and materials are removed from site.

3.3 Worksite is reinstated and made safe.

Outcome 4
Complete reporting and documentation.

Performance criteria

4.1 Information is communicated to internal and external parties.
Range may include – special conditions, completion notice, additional work.

4.2 Records and documents are completed and processed.
Range may include – job card, as-built, test sheet.

| Planned review date | 31 December 2022 |
### Status information and last date for assessment for superseded versions

<table>
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<th>Process</th>
<th>Version</th>
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### Consent and Moderation Requirements (CMR) reference

| Consent and Moderation Requirements (CMR) reference | 0014 |


### 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.