

Title	Carry out electrofusion jointing on polyethylene pipes for water networks		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to prepare to carry out and carry out electrofusion jointing for water networks.
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Classification	Water Industry > Water Reticulation
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Available grade	Achieved
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Prerequisites	Unit 31532, <i>Demonstrate knowledge of fusion jointing of polyethylene pipes for water networks</i> ; or demonstrate equivalent knowledge and skills.
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Guidance Information

- 1 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to:
Health and Safety at Work Act 2015; and any subsequent amendments and replacements.
- 2 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable company and legislative requirements.
- 3 Definitions
Company requirements include the policy, procedures, and methodologies of the company. They include legislative and regulatory requirements applicable to the company or a specific site. Requirements are documented in the company's health and safety plans, traffic management plans, contract work programmes, quality assurance programmes, policies, and procedural documents.
Contract specifications include plans, diagrams, and special technical conditions. They do not include special administrative conditions.

Outcomes and performance criteria

Outcome 1

Prepare to carry out electrofusion jointing for water networks.

Performance criteria

- 1.1 Job instructions are obtained, and job details including type and size of pipe, and fusion procedures are confirmed.
- 1.2 Equipment, components, pipes, fittings, and materials are selected and checked and confirmed. Action is taken to rectify any damage or non-conformance.

Range checks may include – pipe type, pipe outside diameter, PN class, standard dimension ratio, surface damage, ovality, pipe end reversion, fittings.
- 1.3 Site conditions are checked and confirmed as suitable for electrofusion jointing.
- 1.4 Site management and communication requirements are determined and confirmed.
- 1.5 Equipment, components and fittings are prepared and positioned.

Outcome 2

Carry out electrofusion jointing for water networks.

Range evidence of three electrofusion joints is required; must include one socket fitting and one saddle fitting.

Performance criteria

- 2.1 Electrofusion jointing is carried out for a specified pipe diameter.
- 2.2 A field check is carried out to ensure integrity of the joint, and action is taken in the event of a potential substandard joint.
- 2.3 Electrofusion joints are destructively tested in accordance with referenced test methods.

Range evidence of destructively testing two test welds is required must include one socket fitting and one saddle fitting
- 2.4 Quality assurance documentation and reporting is completed.

Planned review date	31 December 2023
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	29 November 2018	N/A

Consent and Moderation Requirements (CMR) reference	0101
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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 Connexis Infrastructure ITO qualifications@connexis.org.nz if you wish to suggest changes to the content of this unit standard.