

Title	Prepare, install fittings, and recommission water mains, for water reticulation		
Level	4	Credits	6

Purpose	People credited with this unit standard are able to: develop an action plan for shut-down and re-commissioning, and shut down water supply mains; prepare to install, and install fittings for water reticulation; and recommission water supply mains.
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Classification	Water Industry > Water Reticulation
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Available grade	Achieved
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Explanatory notes

- 1 Legislation and references relevant to this unit standard include: Health and Safety at Work Act 2016, and subsequent amendments;
WSAA 109-2011 Industry Standard for Flange Gaskets and O-rings Appendix D – Flange jointing procedure, available from Water Services Association of Australia: <https://www.wsaa.asn.au/shop/product/7371>;
Technical Note PP 811-TN PE Flange Connections, available from <http://www.performancepipe.com/en-us/Documents/PP811-TN%20PE%20Flange%20Adapters.PDF>.
- 2 Definition
Organisational procedures – instructions to staff, and procedures which are documented in memo or manual format and are available in the workplace. These requirements include but are not limited to – site specific requirements, manufacturers' specifications, product quality specifications, and legislative or regulatory requirements.
Water reticulation – in this context refers to all pipe systems, pumping systems, and components that contribute to the distribution of water, and collection and disposal of wastewater and stormwater.
- 3 Evidence is required for at least two of – water supply mains isolating valve, special purpose valve, air valve and tappings, water meter or flow meter.

Outcomes and evidence requirements

Outcome 1

Develop an action plan for shut-down and re-commissioning, and shut down water supply mains.

Evidence requirements

- 1.1 Action plan for shut-down and re-commissioning is developed in accordance with organisational procedures.
- Range includes but is not limited to – time, contingencies, trial shut-down.
- 1.2 Service providers, key clients, and any private clients are notified in accordance with organisational procedures.
- Range service providers include but are not limited to – fire service; key clients include but are not limited to – businesses, schools, hospitals; private clients may include but are not limited to – people on dialysis; client call centre.
- 1.3 Any required arrangements are made for provision of temporary water supply.
- 1.4 Shut-down is carried out in accordance with organisational procedures.

Outcome 2

Prepare to install, and install fittings for water reticulation.

Evidence requirements

- 2.1 Fittings are selected in accordance with the job and specifications.
- 2.2 Isolated portion of reticulation system is drained in accordance with organisational procedures.
- 2.3 Fittings are checked for compatibility, prepared, assembled, and connected in accordance with manufacturer's instructions, and organisational procedures.
- 2.4 Pipe is cut in preparation for installation of fittings in accordance with organisational procedures.
- 2.5 Installation of fittings is carried out safely, hygienically, and in accordance with organisational procedures and manufacturer's specifications.

Outcome 3

Recommission water supply mains.

Evidence requirements

- 3.1 Pipe line is pressurised in accordance with organisational procedures.
- 3.2 Air is bled from system in accordance with organisational procedures.

- 3.3 Visual check for leaks is carried out in accordance with organisational procedures.
- 3.4 Check of operation of installed fitting is carried out in accordance with organisational procedures.
- 3.5 Key clients, service providers, and any private clients are notified in accordance with organisational procedures.

Range service providers include but are not limited to – fire service; key clients include but are not limited to – businesses, schools, hospitals; private clients may include but are not limited to – people on dialysis; client call centre.

Replacement information	This unit standard replaced unit standard 24924 and unit standard 24925.
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Planned review date	31 December 2021
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	16 March 2017	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>.

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact the Infrastructure Industry Training Organisation qualifications@connexis.org.nz if you wish to suggest changes to the content of this unit standard.