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| Title | Refurbish or replace hydrants and valves for water reticulation | | |
| Level | 4 | Credits | 4 |

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| Purpose | People credited with this unit standard are able to: prepare to install and install fittings, and repair coatings for hydrant and valve refurbishment or replacement for water reticulation; and charge up the pipe line, and check for leaks and operation of the installed fitting following hydrant and valve refurbishment or replacement. |
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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 2015, Local Government Act 2002, and subsequent amendments; WSA 109-2011 *Industry Standard for Flange Gaskets and O-rings* Appendix D, available from Water Services Association of Australia: <https://www.wsaa.asn.au/shop/product/7371>; Local Authority hygiene codes.
- 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.

Outcomes and evidence requirements

Outcome 1

Prepare to install and install fittings, and repair coatings for hydrant and valve refurbishment or replacement for water reticulation.

Evidence requirements

- 1.1 Requirements for hydrant and valve refurbishment or replacement are evaluated in accordance with organisational procedures, and fittings are selected in accordance with local authority requirements.
- 1.2 Isolated portion of reticulation system is drained in accordance with organisational procedures.

- 1.3 Fittings are checked for compatibility, prepared, assembled, and connected in accordance with organisational procedures.
- 1.4 Items to be refurbished or replaced are disassembled, or removed in accordance with organisational procedures.
- 1.5 Coatings of hydrant and fittings are checked for defects and any necessary repairs are performed in accordance with coating manufacturer's specifications.
- 1.6 Installation of fittings is carried out safely, hygienically, and in accordance with organisational procedures.

Outcome 2

Charge up the pipe line, and check for leaks and operation of the installed fitting following hydrant and valve refurbishment or replacement.

Evidence requirements

- 2.1 Pipe line is charged up in accordance with organisational procedures.
- 2.2 Air is bled from system in accordance with organisational procedures.
- 2.3 Visual check for leaks is carried out in accordance with organisational procedures.
- 2.4 Check of operation of installed fitting is carried out in accordance with organisational procedures.

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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 | 19 September 2008 | 31 December 2018 |
| Review | 2 | 16 March 2017 | N/A |

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| 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.