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| Title | Demonstrate knowledge of wet and dry inspection chambers | | |
| Level | 3 | Credits | 2 |

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| Purpose | <p>This unit standard is for people who work in the drainlaying industry.</p> <p>People credited with this unit standard are able to demonstrate knowledge of:</p> <ul style="list-style-type: none"> – drain access chambers; and – wet and dry inspection chambers. |
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| Classification | Plumbing, Gasfitting and Drainlaying > Drainlaying |
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| Available grade | Achieved |
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Guidance Information

1 References

Plumbers, Gasfitters, and Drainlayers Act 2006;
 Health and Safety at Work Act 2015;
 Building Act 2004;
 Health Act 1956;
 Resource Management Act 1991;
 Plumbers, Gasfitters, and Drainlayers Regulations 2010;
 The following standards, which are available at <http://www.standards.govt.nz>:
 AS/NZS 1547:2000 *On-site domestic wastewater management*
 AS/NZS 1546.1:2008 *On-site domestic wastewater treatment units – Septic tanks*
 AS/NZS 3500.2:2003 *Plumbing and drainage – Sanitary plumbing and drainage*;
 The following guides, which are available at <http://www.worksafe.govt.nz/worksafe>:
Good practice guidelines – Excavation safety, Wellington: WorkSafe New Zealand, 2016
Guide for Safety with Underground Services, Wellington: Department of Labour, 2002;
 The following clauses, and any related compliance documents, which are available at <https://www.building.govt.nz/>:
 New Zealand Building Code Clause E1 Surface Water
 New Zealand Building Code Clause G12 Water Supplies
 New Zealand Building Code Clause G13 Foul Water;
 and all subsequent amendments and replacements.

2 Range

Wet and dry inspection chambers may include but are not limited to – pre-cast concrete, in-situ, plastic, in-line inspection chambers, drop inspection chambers.

3 Definitions

Access chamber – a chamber with working space at drain level through which the drain passes either as an open channel or as a pipe incorporating an inspection point. An access chamber allows a person to enter it. (Access chambers were previously known as manholes).

Inspection chamber – a chamber with working space at ground level through which the drain passes either as an open channel or as a pipe incorporating an inspection point.

Job specifications – instructions (oral, written, graphic) and may include any of the following: manufacturers' instructions; design drawing detail specifications; specifications from a specialist source such as an architect, designer, engineer, or a supervisor; and site or work specific requirements. Where job specifications are in conflict with applicable legislation, standards, and/or codes, such legislation, standards, and/or codes shall take precedence for the purpose of assessment.

Other services – any existing installed services such as water, gas, electricity, or telephone network cables.

4 Candidates must hold a current limited certificate or exemption under supervision as issued under the Plumbers, Gasfitters, and Drainlayers Act 2006.

5 Recommended skills and knowledge for the unit standard: Unit 30532, *Demonstrate knowledge of excavating and trenching for plumbing, gasfitting, or drainlaying*.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of drain access chambers.

Performance criteria

1.1 Explain the purpose of access chambers.

1.2 Explain the features and requirements of access chambers.

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| Range | includes but not limited to –rungs, depth, channel, invert levels, benching, risers, corbel, haunching and grade, jump up, platform, cast lid, adjustment ring, traffic requirements, drop access chambers, wet and dry access chambers. |
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1.3 Describe methods of jointing pipework to access chambers appropriate for the materials being joined.

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| Range | loose sleeve/band clamped sleeve, plaster/epoxy mortar (epoxy resin), rubber ring. |
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Outcome 2

Demonstrate knowledge of wet and dry inspection chambers.

Performance criteria

- 2.1 Describe the circumstances in which different types of inspection chambers are appropriate in accordance with site conditions, job specifications, relevant standards and codes, and the Building Act 2004.

Range wet inspection chambers, dry inspection chambers.

- 2.2 Explain methodologies for conducting soundness tests of inspection chamber installations.

- 2.3 Demonstrate knowledge of methods of protecting inspection chambers and associated fittings. May be demonstrated by description of methods or by practical activity.

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| Replacement information | This unit standard and unit standard 30535 replaced unit standard 1116. |
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| Planned review date | 31 December 2022 |
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Status information and last date for assessment for superseded versions

| Process | Version | Date | Last Date for Assessment |
|--------------|---------|-------------------|--------------------------|
| Registration | 1 | 28 September 2017 | N/A |

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| Consent and Moderation Requirements (CMR) reference | 0003 |
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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 The Skills Organisation reviewcomments@skills.org.nz if you wish to suggest changes to the content of this unit standard.