

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

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 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to:
 Plumbers, Gasfitters, and Drainlayers Act 2006;
 Health and Safety at Work Act 2015;
 Building Act 2004;
 Resource Management Act 1991;
 Plumbers, Gasfitters, and Drainlayers Regulations 2010.

The following standards, which are available at <http://www.standards.govt.nz>:
 AS/NZS 1547:2012 *On-site domestic wastewater management*;
 AS/NZS 1546.1:2008 *On-site domestic wastewater treatment units – Septic tanks*;
 AS/NZS 3500.2:2021 *Plumbing and drainage, Part 2: 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;
Confined spaces: planning entry and working safely in a confined space, Wellington: WorkSafe New Zealand, 2020.

The following Building Code clauses, and any related Acceptable Solution and Verification Method documents, which are available at <https://www.building.govt.nz/>:
 New Zealand Building Code Clause E1 Surface Water;
 New Zealand Building Code Clause G13 Foul Water;
 New Zealand Building Code Clause G14 Industrial liquid waste.

Any new, amended or replacement referenced standards, codes of practice, guidelines, Building Code Acceptable Solutions and Verification Methods, or authority requirements affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.

2 Definitions

Access chamber refers to 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 refers to 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 refer to 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.

3 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. Performance criterion 2.3 may be demonstrated by description of methods or by a practical activity.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of drain access chambers.

Performance criteria

1.1 Explain the purpose of drain access chambers.

1.2 Explain the features and requirements of drain access chambers.

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.

1.3 Describe methods of jointing pipework to access chambers appropriate for the materials being joined.

Range may include – band clamped sleeve, plaster/epoxy mortar (epoxy resin), compression, glue/solvent cement/solvent weld, rubber ring, fusion weld (PE); evidence of three is required.

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 Describe methods of protecting inspection chambers and associated fittings.

Replacement information	This unit standard and unit standard 30535 replaced unit standard 1116.
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Planned review date	31 December 2029
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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	31 December 2028
Review	2	30 May 2024	N/A

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 Waihangara Ara Rau Construction and Infrastructure Workforce Development Council qualifications@waihangaraarau.nz if you wish to suggest changes to the content of this unit standard.