

Title	Demonstrate knowledge of the installation and maintenance of sanitary appliances and fixtures		
Level	4	Credits	8

Purpose	<p>This unit standard is for people who work, or intend to work, in the plumbing industry.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> – demonstrate knowledge of regulatory requirements and selection of methods and materials as applied to the installation and maintenance of sanitary appliances and fixtures; – describe the selection of appropriate sanitary appliances and fixtures; – describe the positioning of sanitary appliances and fixtures; – describe the installation, connection, and commissioning of sanitary appliances and fixtures; and – describe the maintenance of sanitary appliances and fixtures.
----------------	--

Classification	Plumbing, Gasfitting and Drainlaying > Plumbing
-----------------------	---

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 References
 - Building Act 2004;
 - Health and Safety at Work Act 2015;
 - Plumbers, Gasfitters, and Drainlayers Act 2006;
 - Plumbers, Gasfitters, and Drainlayers Regulations 2010;
 - The following standards, which are available at <https://www.standards.govt.nz>:
 - AS/NZS 3500.1:2015 *Plumbing and drainage – Part 1: Water services*,
 - AS/NZS 3500.2:2015 *Plumbing and drainage – Part 2: Sanitary plumbing and drainage*,
 - NZS 5807:1980 *Code of practice for industrial identification by colour, wording or other coding*;
 - The following clauses, current versions, and any related compliance documents, which are available at <https://www.building.govt.nz>:
 - New Zealand Building Code Clause G1 Personal Hygiene,
 - New Zealand Building Code Clause G2 Laundering,
 - New Zealand Building Code Clause G3 Food Preparation and Prevention of Contamination,
 - New Zealand Building Code Clause G10 Piped Services,

New Zealand Building Code Clause G12 Water Supplies,
New Zealand Building Code Clause G13 Foul Water;
and all subsequent amendments and replacements.

3 Credit for this unit standard does not entitle the candidate to legally perform certain electrical aspects of this work unless registered, licensed, or supervised by a registered person under the provisions of the Electricity Act 1992.

4 Definitions

Job requirements – specific requirements of the job at hand not covered by job specifications.

Job specifications – instructions (oral, written, graphic) and may include any of the following: manufacturer 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.

Maintain may refer to all or any of – repair, upgrade, alter, remove.

Sanitary appliances – include the following, incorporating the relevant fittings:

- *hygiene fixtures* – basin, shower, bath, laundry tub, sink, cleaner’s sink;
- *appliances* – dishwashing machine, washing machine, waste disposal unit;
- *foul water appliances* – urinal, water closet pan, bidet;
- *specialist appliances found in* – medical, hospitality, laboratory, and factory/industrial situations.

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

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of regulatory requirements and selection of methods and materials as applied to the installation and maintenance of sanitary appliances and fixtures.

Performance criteria

1.1 Describe applicable sections of legislation, standards, and codes in terms of their application to the installation and maintenance of sanitary appliances and fixtures.

1.2 Justify selection of methods and materials.

Range job specifications, operation of the installed system and components, prudent use and longevity of materials; may include job requirements.

Outcome 2

Describe the selection of appropriate sanitary appliances and fixtures.

Performance criteria

- 2.1 Describe the selection of appropriate sanitary appliances and fixtures in accordance with owner and/or user requirements and job specifications.

Outcome 3

Describe the positioning of sanitary appliances and fixtures.

Performance criteria

- 3.1 Describe the positioning of sanitary appliances and fixtures to measurements in accordance with owner and/or user requirements and job specifications.

Range must include at least one appliance or fixture for users with a physical disability, and one other appliance or fixture.

Outcome 4

Describe the installation, connection, and commissioning of sanitary appliances and fixtures.

Performance criteria

- 4.1 Describe the installation of sanitary appliances and fixtures in accordance with job specifications and relevant standards and codes.
- 4.2 Describe the connection of sanitary appliances and fixtures to water supply connection and disposal service termination points in accordance with job specifications and relevant standards and codes.
- 4.3 Describe processes for identifying and confirming non-compliant sanitary appliance or fixture installations and communicating required changes to consumer.
- 4.4 Describe installation and commissioning tests in accordance with job specifications and relevant standards and codes.

Outcome 5

Describe the maintenance of sanitary appliances and fixtures.

Performance criteria

- 5.1 Describe the identification of faults in terms of causes and possible means of rectification.
- 5.2 Describe the rectification of faults in accordance with maintenance requirements, job specifications, and relevant standards and codes.

Replacement information	This unit standard and unit standard 30554 replaced unit standard 21885 and unit standard 21886.
--------------------------------	--

Planned review date	31 December 2022
----------------------------	------------------

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 October 2017	N/A

Consent and Moderation Requirements (CMR) reference	0003
--	------

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.