Title | Install and maintain sanitary appliances and fixtures
---|---
Level | 4 | Credits | 10

**Purpose**
This unit standard is for people who work in the plumbing industry.

People credited with this unit standard are able to: select, position, install, and maintain sanitary appliances and fixtures; work safely and with care; and demonstrate knowledge of regulatory requirements and selection of methods and materials as applied to the installation and maintenance of sanitary appliances and fixtures.

**Classification**
Plumbing, Gasfitting and Drainlaying > Plumbing

**Available grade**
Achieved

**Prerequisites**
Current plumbing certificate or licence as issued under the Plumbers, Gasfitters, and Drainlayers Act 2006.

**Guidance Information**

1. Legislation, standards, and codes applicable to this unit standard include but are not limited to:
   - Plumbers, Gasfitters, and Drainlayers Act 2006;
   - Health and Safety in Employment Act 1992;
   - Building Act 2004;
   - Plumbers, Gasfitters, and Drainlayers Regulations 1977;
   - Water Supplies Protection Regulations 1961;
   - AS/NZS 3500.1:2003 *Plumbing and drainage – Water services*;
   - AS/NZS 3500.2:2003 *Plumbing and drainage – Sanitary plumbing and drainage*;
   - NZS 5807:1980 *Code of practice for industrial identification by colour, wording or other coding*; available at [http://www.standards.co.nz](http://www.standards.co.nz);
   - May include:
     - Health Act 1956.
   - Any legislation, standard, or code superseding any of the above will apply, pending review of this unit standard.

2. Range
basin, bidet, cleaner’s sink, dishwashing machine, laundry tub, shower, sink, urinal, water closet pan, valves, mixers, taps.

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

4 This unit standard requires the application of theory as included in the Plumbers, Gasfitters, and Drainlayers Regulations 1977. These Regulations are currently under review to align them with the newer Plumbers, Gasfitters, and Drainlayers Act 2006.

5 Definitions

- **Job requirements** refers to specific requirements of the job at hand not covered by job specifications.
- **Job specifications**, for the purpose of this unit standard, refers 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. 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.
- **Other services** refers to any existing installed services.
- **Regulatory requirements**, for the purpose of this unit standard, refers to applicable legislation, standards, and codes.

### Outcomes and performance criteria

**Outcome 1**

Select sanitary appliances and fixtures.

**Performance criteria**

1.1 Sanitary appliances and fixtures are selected in accordance with owner and/or users’ requirements and job specifications.

**Outcome 2**

Position sanitary appliances and fixtures.

**Performance criteria**

2.1 Sanitary appliances and fixtures are positioned to measurements in accordance with owner and/or users’ requirements and job specifications.

**Outcome 3**

Install sanitary appliances and fixtures.
Performance criteria

3.1 Sanitary appliances and fixtures are installed in accordance with job specifications and relevant standards and codes.

3.2 Sanitary appliances and fixtures are connected to water supply connection and disposal service termination points in accordance with job specifications and relevant standards and codes.

3.3 Installation and commissioning tests are carried out in accordance with job specifications and relevant standards and codes.

3.4 The installation meets requirements of the Building Act 2004.

Outcome 4

Maintain sanitary appliances and fixtures.

Performance criteria

4.1 Sanitary appliances and fixtures are assessed in accordance with job specifications.

4.2 Faults are identified in terms of causes and possible means of rectification.

4.3 Faults are rectified in accordance with maintenance requirements, job specifications, and relevant standards and codes.

Outcome 5

Work safely and with care.

Performance criteria

5.1 Practical activities are carried out avoiding harm to people and damage to property, other services, materials, tools, and equipment.

Outcome 6

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

6.1 Applicable sections of legislation, standards, and codes are described in terms of their application to the installation and maintenance of sanitary appliances and fixtures.
6.2 Selection of methods and materials is justified.

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

<table>
<thead>
<tr>
<th>Replacement information</th>
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<tr>
<td>This unit standard and unit standard 21886 were replaced by unit standard 30553 and unit standard 30554.</td>
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<tr>
<td>This unit standard replaced unit standard 2154 and unit standard 2155.</td>
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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

<table>
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<th>Process</th>
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<tr>
<td>Registration</td>
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<td>25 October 2007</td>
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<td>Review</td>
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Consent and Moderation Requirements (CMR) reference 0003

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.

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.