

**Field Planning and Construction****Review of *Plumbing, Gasfitting and Drainlaying* unit standards**

<b>Subfield</b>	<b>Domain</b>	<b>ID</b>
Plumbing, Gasfitting and Drainlaying	Core Plumbing, Gasfitting, and Drainlaying	1099, 1122, 21879, 21881, 21882, 21883, 25413
	Drainlaying	1100, 1104, 1108, 1109, 1112, 1114-1117, 21904, 21946, 23846, 27335, 27336

The Skills Organisation has completed the review of the unit standards listed above.

**Date new versions published**

**September 2017**

**Planned review date**

**December 2022**

**Summary**

The review of these standards was initiated following the listing of Level 4 New Zealand Certificates in Plumbing, in Gasfitting, and in Drainlaying, to ensure that they are fit for purpose, relevant to the Plumbing, Gasfitting, and Drainlaying (PGD) sectors and are readily available for assessment. Industry representatives from the PGD Sector Review and Qualification Development Groups were involved in the review and writing of these unit standards and provided feedback on the unit standards.

**Main changes**

- Changes were made to accurately reflect sector terminology, changing trade practices, and emerging materials.
- Three unit standards were reviewed as Category B.
- Eighteen unit standards were reviewed as Category C and replaced by fifteen new standards.
- Four new unit standards were developed.

**Category C unit standards will expire at the end of December 2022**

**The last date for assessment of superseded versions of Category B unit standards is December 2022**

**Impact on existing organisations with consent to assess**

<b>Current consent for</b>			<b>Consent extended to</b>		
<b>Nature of consent</b>	<b>Classification or ID</b>	<b>Level</b>	<b>Nature of consent</b>	<b>Classification or ID</b>	<b>Level</b>
Domain	Drainlaying	3	Standards	30577, 30578, 30579	4
Domain	Drainlaying	3	Standards	30530, 30531	4
Domain	Drainlaying	3	Standards	30538, 30539	4
Standard	1099	3	Standards	30532, 30533	3
Standard	1100	4	Standards	30577, 30578, 30579	4
Standard	1112	4	Standards	30538, 30539	4
Standard	1114	4	Standards	30530, 30531	4

Current consent for			Consent extended to		
Nature of consent	Classification or ID	Level	Nature of consent	Classification or ID	Level
Standard	1115	4	Standards	30530, 30531	4
Standard	1122	3	Standards	30532, 30533	3

### Impact on Consent and Moderation Requirements (CMR)

All unit standards have been moved from CMR 0008 to CMR 0003.

### Detailed list of unit standards – classification, title, level, and credits

All changes are in **bold**.

Key to review category	
<b>A</b>	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number
<b>B</b>	Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID and a new version number
<b>C</b>	Major changes that necessitate the registration of a replacement standard with a new ID
<b>D</b>	Standard will expire and not be replaced

Planning and Construction > Plumbing, Gasfitting and Drainlaying > Core Plumbing, Gasfitting, and Drainlaying

ID	Title	Level	Credit	Review Category
1099	Excavate and trench for plumbing, gasfitting, or drainlaying	3	9	C
1122	Establish line, level, and gradient for plumbing or drainlaying	3	4	C
<b>30532</b>	<b>Demonstrate knowledge of excavating and trenching for plumbing, gasfitting, or drainlaying</b>	<b>3</b>	<b>5</b>	
<b>30533</b>	<b>Position, excavate, and backfill excavations and trenches for plumbing, gasfitting, or drainlaying</b>	<b>3</b>	<b>4</b>	
21881	Describe ethical and legal considerations for plumbing, gasfitting, or drainlaying services	2	2	B
21883	Demonstrate knowledge of hazards and precautions for working with gas in plumbing, gasfitting, or drainlaying <b>Demonstrate knowledge of working in gas contaminated environments in plumbing, gasfitting, or drainlaying</b>	2	3	B
25413	Draw and form simple patterns for plumbing and gasfitting sheet metal components	2	3	B
<b>30536</b>	<b>Demonstrate knowledge of the regulatory framework for plumbing, gasfitting, and drainlaying</b>	<b>4</b>	<b>5</b>	<b>New</b>
<b>30537</b>	<b>Work in plumbing, gasfitting, or drainlaying with consideration of other trades and services</b>	<b>4</b>	<b>5</b>	<b>New</b>

ID	Title	Level	Credit	Review Category
30575	<b>Demonstrate knowledge of maintaining structural integrity and weathertightness of building penetrations</b>	4	8	New
30576	<b>Maintain structural integrity and weather tightness of building penetrations</b>	4	10	New

## Planning and Construction &gt; Plumbing, Gasfitting and Drainlaying &gt; Drainlaying

ID	Title	Level	Credit	Review Category
1100	Install surface water intake and outfall structures	4	2	C
1104	Install sub-soil drainage	3	4	C
1108	Install and maintain sumps	3	4	C
1109	Install surface water collection systems, and demonstrate knowledge of their maintenance	3	4	C
30577	<b>Demonstrate knowledge of the installation and maintenance of stormwater handling systems</b>	4	9	
30578	<b>Install and maintain stormwater handling systems</b>	4	4	
30579	<b>Install and complete wingwall structures for stormwater handling systems</b>	4	2	
1112	Install and commission septic tanks, and explain maintenance of septic tanks	4	6	C
21904	Install and maintain pumps, filters, and controls for non-potable water supply and disposal systems	4	4	C
21946	Demonstrate knowledge of the installation of on-site wastewater treatment systems	4	6	C
23846	Install, commission and maintain effluent disposal systems	3	4	C
27335	Install, commission and maintain proprietary on-site drainage disposal systems	4	6	C
30538	<b>Demonstrate knowledge of installation, commissioning, and maintenance of on-site wastewater treatment systems</b>	4	12	
30539	<b>Install, commission, and maintain on-site wastewater treatment systems</b>	4	8	
1114	Install drains	4	8	C
1115	Demonstrate knowledge of drain access points	4	2	C
1117	Install thrust/anchor and anti-scour blocks	3	2	C
27336	Demonstrate knowledge of sewer gas interceptor traps	4	2	C
30530	<b>Demonstrate knowledge of the installation and maintenance of foulwater drains</b>	4	10	
30531	<b>Install and maintain foulwater drains</b>	4	5	
1116	Install wet and dry inspection chambers	3	4	C
30534	<b>Demonstrate knowledge of wet and dry inspection chambers</b>	3	2	
30535	<b>Install inspection chambers</b>	3	2	

## Planning and Construction &gt; Plumbing, Gasfitting and Drainlaying

ID	Domain	Title	Level	Credit	Review Category
21879	Core Plumbing, Gasfitting, and Drainlaying	Determine job requirements for plumbing, gasfitting, or drainlaying	3	2	C
21882	Core Plumbing, Gasfitting, and Drainlaying	Interpret job documentation, draw as-built drawings and record variations to plumbing, gasfitting, or drainlaying jobs	4	5	C
30526	Core Plumbing, Gasfitting, and Drainlaying	<b>Demonstrate knowledge of interpreting job documentation for plumbing, gasfitting, or drainlaying jobs</b>	4	10	
30527	Plumbing	<b>Make as-built drawings and record variations to job specifications for plumbing jobs</b>	4	5	
30528	Gasfitting	<b>Make as-built drawings and record variations to job specifications for gasfitting jobs</b>	4	5	
30529	Drainlaying	<b>Make as-built drawings and record variations to job specifications for drainlaying jobs</b>	4	5	