

National Certificate in Drainlaying (Installation) (Level 4)

Level 4

Credits 135

This qualification has been **reviewed**. The last date to meet the requirements is 31 December 2022.

Transition Arrangements

This qualification has been reviewed and replaced by the New Zealand Certificate in Drainlaying (Level 4) [Ref: 2661].

The last date for entry into programmes leading to the replaced qualification [Ref: 0077] is 31 December 2017, when the replaced qualification will be designated expiring.

The last date to meet the requirements of the replaced qualification will be 31 December 2022 when the qualification will be discontinued. From that date no results can be reported against the qualifications.

People currently working towards the replaced qualification may either complete the requirements by 31 December 2022 or transfer their results to the replacement qualification.

For detailed information see [Review Summaries](#) on the NZQA website.

NZQF National Qualification Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	July 1995	December 2011
Revision	2	February 1996	December 2011
Revision	3	August 1996	December 2011
Revision	4	May 1997	December 2011
Revision	5	April 2005	December 2011
Review	6	January 2008	March 2015
Review	7	April 2012	December 2022
Review	8	June 2015	December 2022

Standard Setting Body

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Reviewed

National Certificate in Drainlaying (Installation) (Level 4)

Level 4

Credits 135

Purpose

The purpose of this qualification is to provide the construction industry with individuals who have the knowledge, practical skills, and ethical and legal considerations to install drainage systems.

The qualification is a prerequisite to registration with the Plumbers, Gasfitters and Drainlayers Board as a licensed drainlayer, therefore all standards listed are compulsory.

Holders of this qualification are capable of operating independently in installing drainage systems which includes establishing line, level, and gradient, and excavating, trenching, and restoring. In addition, holders are able to demonstrate knowledge and skills in: use of drainlaying tools and equipment; safety, emergency requirements and environmental practices relating to drainlaying activities; good work habits, customer services and relations, and ethical behaviour; job requirements; the interpretation of drawings and specification; as-built drawings; and apply mathematics relevant to drainlaying.

Holders of this qualification could progress to the National Certificate in Drainlaying (Design, Management and Supervision) (Level 5) [1831].

Credit Range

Level 1 credits	6
Level 2 credits	21
Level 3 or above credits	108
Total	135

Requirements for Award of Qualification

Award of NZQF National Qualifications

Credit gained for a standard may be used only once to meet the requirements of this qualification.

Unit standards and achievement standards that are equivalent in outcome are mutually exclusive for the purpose of award. The table of mutually exclusive standards is provided on the New Zealand Qualifications Authority (NZQA) website: <http://www.nzqa.govt.nz/qualifications-standards/standards/standards-exclusion-list/>.

Reviewed standards that continue to recognise the same overall outcome are registered as new versions and retain their identification number (ID). Any version of a standard with the same ID may be used to meet qualification requirements that list the ID and/or that specify the past or current classification of the standard.

Summary of Requirements

- Compulsory standards

Detailed Requirements

Compulsory

The following standards are required

Core Generic > Core Generic > Work and Study Skills

ID	Title	Level	Credit
4249	Demonstrate care and timeliness as an employee	1	4

Health > Health Studies > First Aid

ID	Title	Level	Credit
26551	Provide first aid for life threatening conditions	2	1
26552	Demonstrate knowledge of common first aid conditions and how to respond to them	2	1

Health > Occupational Health and Safety > Occupational Health and Safety Practice

ID	Title	Level	Credit
17599	Plan a confined space entry	4	5

Humanities > Communication Skills > Writing

ID	Title	Level	Credit
3490	Complete an incident report	1	2

Planning and Construction > Construction > Construction Health and Safety, and Injury Prevention

ID	Title	Level	Credit
21209	Demonstrate knowledge of and carry out health and safety procedures for a building construction site	2	4

Planning and Construction > Construction Trades > Core Construction

ID	Title	Level	Credit
2138	Demonstrate knowledge of asbestos and safety procedures	2	1

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

ID	Title	Level	Credit
1099	Excavate and trench for plumbing, gasfitting, or drainlaying	3	9
1122	Establish line, level, and gradient for plumbing or drainlaying	3	4
21879	Determine job requirements for plumbing, gasfitting, or drainlaying	3	2
21881	Describe ethical and legal considerations for plumbing, gasfitting, or drainlaying services	2	2
21882	Interpret job documentation, draw as-built drawings and record variations to plumbing, gasfitting, or drainlaying jobs	4	5
21883	Demonstrate knowledge of hazards and precautions for working with gas in plumbing, gasfitting, or drainlaying	2	3
25425	Apply mathematics in a plumbing, gasfitting, or drainlaying situation	2	3
27333	Demonstrate knowledge of conservation and environment practices relevant to a licensed plumber, gasfitter or drainlayer	3	2

Planning and Construction > Plumbing, Gasfitting and Drainlaying > Drainlaying

ID	Title	Level	Credit
1100	Install surface water intake and outfall structures	4	2
1102	Install trade waste interceptor traps	3	4
1104	Install sub-soil drainage	3	4
1106	Perform drain maintenance	3	5
1108	Install and maintain sumps	3	4
1109	Install surface water collection systems, and demonstrate knowledge of their maintenance	3	4
1112	Install and commission septic tanks, and explain maintenance of septic tanks	4	6
1114	Install drains	4	8
1115	Demonstrate knowledge of drain access points	4	2
1116	Install wet and dry inspection chambers	3	4
1117	Install thrust/anchor and anti-scour blocks	3	2
1118	Install sewage pump stations	4	4
1120	Identify and describe hand tools and checking equipment for drainlaying	2	2
1121	Identify and describe trade equipment and power tools used for drainlaying	2	2

ID	Title	Level	Credit
21904	Install and maintain pumps, filters, and controls for non-potable water supply and disposal systems	4	4
23846	Install, commission and maintain effluent disposal systems	3	4
27332	Apply legislation and compliance documents relevant to a licensed drainlayer	4	8
27334	Demonstrate knowledge of aspects of theory related to drainage systems	3	8
27335	Install, commission and maintain proprietary on-site drainage disposal systems	4	6
27336	Demonstrate knowledge of sewer gas interceptor traps	4	2

Service Sector > Service Sector Skills > Service Sector - Core Skills

ID	Title	Level	Credit
57	Provide customer service	2	2

Transition Arrangements

Version 7

Version 7 was issued following review of fitness for purpose and to ensure alignment with the competencies of a licenced drainlayer as reviewed through industry consultation.

Changes to structure and content

- Title of the qualification was changed to include the level and a descriptor (Installation) in order to better reflect the graduate profile of drainlayers.
- Expiring *Core Health* unit standards 6400, 6401, and 6402 were replaced by unit standards 26551 and 26552; safety unit standard 18426 was substituted by unit standard 17599 to require learners to demonstrate capabilities in confined space entry rather than just demonstrate knowledge; expiring unit standard 1101 was replaced by unit standard 27336 to replace reference to obsolete installation technology with knowledge of current technology; expiring unit standard 1107, and unit standard 21946, were removed from the qualification.
- Five new unit standards (27332-27336) were added to the qualification, two of which (27332 and 27334) are required for eligibility for licensing as a drainlayer.
- Unit standard 25425 was added to the qualification to assess numeracy skills required by industry.

For detailed information see Review Summaries on the NZQA website.

This qualification contains standards that replace earlier standards. For the purposes of this qualification, people who have gained credit for the expiring standards are exempt from the requirement to gain credit for the replacement standards – see table below.

Credit for	Exempt from
1110, 1111	23846
1101	27336
6400	26551, 26552
6401	26552
6402	26551

People working towards version 6 of this qualification may either complete the requirements of that version or transfer their results to version 7.

The last date for entry to programmes or courses for version 6 is 31 December 2012.

It is not intended that anyone is disadvantaged by this review, and the above arrangements have been designed for a smooth transition. However, anyone who feels they have been disadvantaged may appeal to The Skills Organisation at the address given below.

Previous versions of the qualification

Version 6 was issued following the review of the Plumbing, Gasfitting, Drainlaying, and the Core Construction unit standards. Changes to structure and content included: the level increased from 3 to 4; the total credits increased from 86 to 135; unit standards 57, 2138, 3490, 4249, 6400-6402, 18426, 21209, 21879, 21881-21883, 21904, and 21946 were added; unit standards 1110 and 1111 were replaced by unit standard 23846; unit standard titles, levels, and credit values were updated to reflect changes made in the unit standard review.

Version 5 was issued in order to make changes to the purpose statement as the requirements for registration as a drainlayer were incorrectly stated. The qualification document format was updated in the process. There were no other changes to structure and content.

Version 4 was issued to extend the period of registration.

Version 3 was issued following revision.

Version 2 was issued following revision.

Other standard setting bodies whose standards are included in the qualification

Building and Construction Industry Training Organisation
 New Zealand Industry Training Organisation
 NZQA

Certification

This certificate will display the logos of NZQA, The Skills Organisation and the organisation that has been granted consent to assess against standards that meet the requirements of the qualification (accredited).

Classification

This qualification is classified according to the classification system listed on the Directory of Assessment Standards (DAS) and the New Zealand Standard Classification of Education (NZSCED) system as specified below.

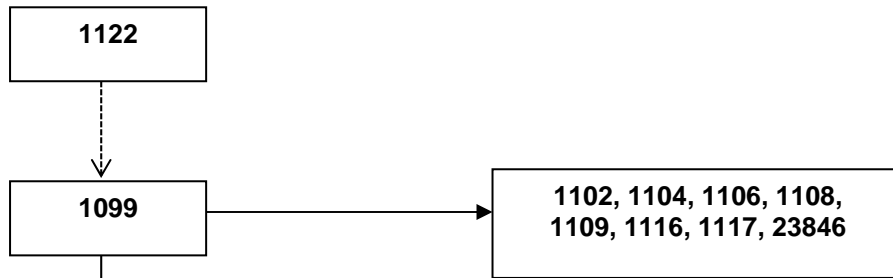
DAS Classification		NZSCED	
Code	Description	Code	Description
693	Planning and Construction > Plumbing, Gasfitting and Drainlaying > Drainlaying	040327	Architecture and Building > Building > Plumbing, Gasfitting and Drainlaying

Quality Management Systems

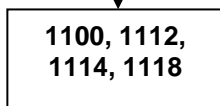
Providers and Industry Training Organisations must be granted consent to assess by a recognised Quality Assurance Body before they can register credits from assessment against standards. Organisation with consent to assess and Industry Training Organisations assessing against standards must engage with the moderation system that applies to those standards. Consent to assess requirements and the moderation system are outlined in the associated Consent and Moderation Requirements (CMR) for each standard.

Prerequisite Diagram

Level 2



Level 3



Level 4

Key

- Prerequisite
- - - Recommended for entry

Reviewed