

National Certificate in Solar Water Heating Installation (Management, Selection and Specification) (Level 5)

Level	5
Credits	102-112

Purpose

This qualification is for registered plumbers wishing to gain competence in the specialist field of solar installation and design and management of solar installation. The content and structure has been developed to encourage good practice installation and management of solar system installation. While selection and specification is included, candidates are not expected to be competent solar system design engineers.

The qualification contains a compulsory section so that people credited with this qualification will be able to install and maintain roofing, rainwater handling, and cladding systems, and flashings; install, test commission and maintain solar water heating systems; demonstrate knowledge of solar water heating safety, system types and applications, regulatory compliance, and design; select and specify solar hot water systems; and manage their installation and commissioning. They will also be able to demonstrate knowledge of the legal system in New Zealand and apply the law of contract to solar hot water heating installation situations. As part of the safety aspects required for installation, they will be able to employ fall arrest systems on building and construction sites.

The elective section allows candidates to demonstrate competence in installing a solar system in one or both of the common roofing types, metal roof cladding or metal roof tiles.

Special Notes

Any person installing sanitary plumbing systems must have a current plumbing certificate or licence as issued under the Plumbers, Gasfitters, and Drainlayers Act 2006.

Credit Range

	Compulsory	Elective
Level 3 or above credits	87	15-25
Minimum totals	87	15-25

Requirements for Award of Qualification

Award of NQF 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 in section 7 of the New Zealand Qualifications Authority (NZQA) Rules and Procedures publications available at <http://www.nzqa.govt.nz/ncea/acrp/index.html>.

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
- Elective – A minimum of 1 standard as specified

Detailed Requirements

Compulsory

The following standards are required

Business > Management > Business Law

ID	Title	Level	Credit
11631	Demonstrate knowledge of the legal system in New Zealand	4	4
11633	Apply the law of contract to a given fact situation	5	7

Planning and Construction > Construction Trades > Core Construction

ID	Title	Level	Credit
15757	Employ fall arrest systems on building and construction sites	3	4

Planning and Construction > Plumbing, Gasfitting and Drainlaying > Plumbing

ID	Title	Level	Credit
21884	Install and maintain roofing, rainwater handling, and cladding systems, and flashings	4	25
24305	Install, test, commission, and maintain solar water heating systems	4	7
25407	Demonstrate knowledge of solar water heating safety, system types and applications, regulatory compliance, and design	5	15

ID	Title	Level	Credit
25408	Manage installation and commissioning of a solar hot water system	5	10
25409	Select and specify solar hot water systems	5	15

Elective

A minimum of 1 standard

Planning and Construction > Plumbing, Gasfitting and Drainlaying > Roofing

ID	Title	Level	Credit
25282	Form and install flashings for metal roof and wall cladding	4	25
25288	Form and install flashings for metal roof tiles	4	15

NQF Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	April 2009	N/A

Standard Setting Body

Plumbing, Gasfitting and Drainlaying ITO Ltd
PO Box 9951
Wellington 6141

Telephone 04 472 2099
Email info@ito.co.nz
Website www.ito.co.nz

Planned Review

Any person or organisation may contribute to the review of this qualification by sending feedback to the standard setting body at the above address.

Next Review	2014
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Other standard setting bodies whose standards are included in the qualification

NZQA
Opportunity – The Training Organisation

Certification

The certificate will display the logos of NZQA, the Plumbing, Gasfitting and Drainlaying ITO Ltd and the accredited organisation.

Classification

This qualification is classified according to the NQF classification system and the New Zealand Standard Classification of Education (NZSCED) system as specified below.

NQF Classification		NZSCED	
Code	Description	Code	Description
331	Planning and Construction > Plumbing, Gasfitting and Drainlaying > Plumbing	040327	Architecture and Building > Building > Plumbing, Gasfitting and Drainlaying

Quality Management Systems

Providers and Industry Training Organisations must be accredited by a recognised Quality Assurance Body before they can register credits from assessment against standards. Accredited providers and Industry Training Organisations assessing against standards must engage with the moderation system that applies to those standards. Accreditation requirements and the moderation system are outlined in the associated Accreditation and Moderation Action Plan (AMAP) for each standard.