

## National Certificate in Roofing (Installer) with strands in Concrete Roof Tiles, Metal Roofing and Wall Cladding, Metal Roof Tiles, Roof Membrane, Liquid Roof Membrane, Torch on Roof Membrane, and Roof Shingle, and with an optional strand in Foreperson

**Level** 4

**Credits** 104-161

This qualification has been **reviewed**. The last date to meet the requirements is 31 December 2020.

### Transition Arrangements

This qualification has been reviewed and replaced by the New Zealand Certificate in Roofing (Installation) (Level 4) with strands in Concrete or Clay Tile Roof; Profiled Metal Roof and Wall Cladding; Metal Tile Roof; Roof Membrane; Shingle or Slate Roof [Ref: 3512]

The last date for entry into programmes leading to this qualification is 31 December 2018. The last date for assessment of this qualification is 31 December 2020, when the qualification will be discontinued.

People currently working towards this qualification may either complete the requirements by 31 December 2020, or transfer their results to the replacement qualification.

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

### NQF Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	October 1997	December 2008
Review	2	November 2006	December 2010
Revision	3	June 2007	December 2010
Review	4	April 2009	December 2020
Review	5	July 2016	December 2020

## Standard Setting Body

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Reviewed

## **National Certificate in Roofing (Installer) with strands in Concrete Roof Tiles, Metal Roofing and Wall Cladding, Metal Roof Tiles, Roof Membrane, Liquid Roof Membrane, Torch on Roof Membrane, and Roof Shingle, and with an optional strand in Foreperson**

<b>Level</b>	<b>4</b>
<b>Credits</b>	<b>104-161</b>

### **Purpose**

This qualification is suitable for people with no or limited experience as installers of roofing. It is also suitable in terms of recognising current roofing installation knowledge and skills. People completing this qualification have knowledge of roofing plans, preparation for installation, installation procedures, systems relevant to a specialist strand or strands, re-roofing and flashings and penetrations. They will also be able to perform relevant calculations, interpret roofing plans and specifications, form and install flashings and carry out installation or application as applicable to the chosen strand(s).

Achievement of this qualification requires completing a core compulsory set of standards covering first aid, safe working and injury prevention, and knowledge of hand and power tools, general industry knowledge, and knowledge of airflow and rainwater handling. Candidates then complete one or more of the following specialist strands, depending on the type of roofing that they install.

- Concrete Roof Tiles
- Metal Roof and Wall Cladding
- Metal Roof Tiles
- Roof Membrane
- Liquid Roof Membrane
- Torch on Roof Membrane
- Roof Shingle

In addition candidates may choose to complete an optional Foreperson strand, suitable for people with proven competence in installing roofing product and who have additional responsibility in terms of supervising installation on-site. This involves applying leadership, site safety, communication skills and quality assurance practices on roofing projects.

This qualification may lead to enrolment in the National Certificate in Roofing (Contract Supervisor) [Ref: 1274] suitable for persons with roofing product installation experience. People wishing to obtain information on career pathways should contact The Skills Organisation (see contact details below).

## Special Notes

The Concrete Roof Tiles strand incorporates the Concrete Roof Tiling strand from version 3 of this qualification and the standards contained in the expired National Certificate in Concrete Roof Tiling [Ref: 0312].

## Credit Range

	<b>Core Compulsory</b>	<b>Concrete Roof Tiles Strand</b>	<b>Metal Roofing and Wall Cladding Strand</b>
Level 1 credits	7	-	-
Level 2 credits	12	9	8
Level 3 credits	14	16	25
Level 4 credits	10	64	85
Minimum totals	43	89	118
Qualification Total		132	161

	<b>Metal Roof Tiles Strand</b>	<b>Roof Membrane Strand</b>	<b>Liquid Roof Membrane Strand</b>
Level 2 credits	10	10	10
Level 3 credits	15	14	12
Level 4 credits	56	41	39
Minimum totals	81	65	61
Qualification Total	124	108	104

	<b>Torch on Roof Membrane Strand</b>	<b>Roof Shingle Strand</b>
Level 2 credits	10	10
Level 3 credits	14	12
Level 4 credits	39	41
Minimum totals	63	63
Qualification Total	106	106

	<b>Foreperson Optional Strand</b>
Level 4 credits	19
Minimum total	19

## 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

- Core Compulsory standards

One of the following strands is required

- Concrete Roof Tiles Strand
- Metal Roofing and Wall Cladding Strand
  - Metal Roof Tiles Strand
  - Roof Membrane Strand
  - Liquid Roof Membrane Strand
  - Torch on Roof Membrane Strand
  - Roof Shingle Strand

The following strands are optional

- Foreperson Optional Strand

### Detailed Requirements

#### Core 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	3

Health > Health Studies > Core Health

ID	Title	Level	Credit
6401	Provide first aid	2	1
6402	Provide resuscitation level 2	1	1

## Health &gt; Occupational Health and Safety &gt; Occupational Health and Safety Practice

ID	Title	Level	Credit
497	Demonstrate knowledge of workplace health and safety requirements	1	3

## Planning and Construction &gt; Construction &gt; Construction Health and Safety, and Injury Prevention

ID	Title	Level	Credit
14609	Describe risk factors that contribute to injury on construction sites	3	3
21209	Demonstrate knowledge of and carry out health and safety procedures for a building construction site	2	4

## Planning and Construction &gt; Construction Trades &gt; Building, Construction, and Allied Trades Skills

ID	Title	Level	Credit
25334	Demonstrate knowledge of the roofing industry within a BCATS environment	2	2

## Planning and Construction &gt; Construction Trades &gt; Core Construction

ID	Title	Level	Credit
12997	Demonstrate knowledge of safe working practices on construction sites	3	3
15757	Employ fall arrest systems on building and construction sites	3	4

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

ID	Title	Level	Credit
21413	Demonstrate knowledge of roofing hand and power tools	2	5
25270	Describe heat, moisture, air-flow, corrosion, and wind loadings relative to roof structures	4	10
25272	Describe rainwater handling systems and discharge factors on roofs	3	4

**Concrete Roof Tiles Strand**

The following standards are required

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

ID	Title	Level	Credit
1685	Carry out preliminary site check for concrete roof tiling	4	8
1686	Fix battens for concrete and clay roof tiles	4	8
1687	Fix underlay for concrete roof tiles	4	4

ID	Title	Level	Credit
1688	Load concrete roof tiles onto a roof	3	5
1689	Fix full concrete roof tiles	4	8
1690	Fix part concrete roof tiles	4	10
1691	Install lead flashings to concrete roof tiles	4	8
1692	Inspect the installation of specialist flashings to concrete roof tiles	4	8
1694	Install finishes at concrete tile roof terminations	4	8
1698	Re-roof an existing concrete tile roof with concrete tiles	3	6
25273	Interpret roofing plans and specifications and perform simple calculations	2	4
25274	Demonstrate basic knowledge of concrete roof tile systems	2	5
25275	Describe preparation and installation for concrete roof tiles	3	5
25276	Demonstrate knowledge of lead and specialist flashings for concrete roof tiles	4	2

### Metal Roofing and Wall Cladding Strand

The following standards are required

Planning and Construction > Plumbing, Gasfitting and Drainlaying > Roofing

ID	Title	Level	Credit
10813	Install translucent roof	4	10
10815	Install profiled metal roof and wall cladding	4	30
10816	Install pan deck roof	4	10
25271	Perform calculations and develop ordering lists for metal roof and wall cladding	3	4
25277	Demonstrate knowledge of metal roof and wall cladding systems	2	8
25278	Describe metal roof and wall cladding preparation and installation procedures	3	10
25279	Describe metal flashings and penetrations	4	10
25280	Describe the system characteristics and installation process for translucent roof	3	8
25281	Describe re-roofing an existing metal roof	3	3
25282	Form and install flashings for metal roof and wall cladding	4	25

**Metal Roof Tiles Strand**

The following standards are required

Planning and Construction > Plumbing, Gasfitting and Drainlaying > Roofing

ID	Title	Level	Credit
10812	Install metal roof tiles	4	35
25273	Interpret roofing plans and specifications and perform simple calculations	2	4
25283	Demonstrate knowledge of metal roof tile systems	2	6
25284	Demonstrate knowledge of metal roof tile preparation planning and organisation	3	4
25285	Describe metal roof tile installation procedures	3	8
25286	Describe re-roofing an existing metal tile roof	3	3
25287	Explain metal roof tile specialist flashing and penetration installations	4	6
25288	Form and install flashings for metal roof tiles	4	15

**Roof Membrane Strand**

The following standards are required

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

ID	Title	Level	Credit
20733	Demonstrate knowledge of safe storage and handling of hazardous substances in the workplace	3	4

Planning and Construction > Plumbing, Gasfitting and Drainlaying > Roofing

ID	Title	Level	Credit
10809	Install membrane roof	4	35
25273	Interpret roofing plans and specifications and perform simple calculations	2	4
25289	Demonstrate knowledge of roof membrane	2	6
25290	Describe roof membrane preparation and installation procedures	3	10
25291	Explain roof membrane installation, re-roofing considerations, and potential problems	4	6



### Liquid Roof Membrane Strand

The following standards are required

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

ID	Title	Level	Credit
20733	Demonstrate knowledge of safe storage and handling of hazardous substances in the workplace	3	4

Planning and Construction > Plumbing, Gasfitting and Drainlaying > Roofing

ID	Title	Level	Credit
10811	Apply liquid roof membrane	4	35
25273	Interpret roofing plans and specifications and perform simple calculations	2	4
25292	Demonstrate knowledge of liquid roof membrane systems	2	6
25293	Describe liquid roof membrane preparation and application procedures	3	8
25294	Explain liquid roof membrane installation, re-roofing considerations, and potential problems	4	4

### Torch on Roof Membrane Strand

The following standards are required

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

ID	Title	Level	Credit
20733	Demonstrate knowledge of safe storage and handling of hazardous substances in the workplace	3	4

Planning and Construction > Plumbing, Gasfitting and Drainlaying > Roofing

ID	Title	Level	Credit
10810	Install torch on roof membrane	4	35
25273	Interpret roofing plans and specifications and perform simple calculations	2	4
25295	Demonstrate knowledge of torch on roof membrane systems	2	6
25296	Describe torch on roof membrane preparation and installation procedures	3	10
25297	Explain torch on roof membrane installation, re-roofing considerations, and potential problems	4	4

## Roof Shingle Strand

The following standards are required

Planning and Construction > Plumbing, Gasfitting and Drainlaying > Roofing

ID	Title	Level	Credit
10814	Install roof shingles	4	35
25273	Interpret roofing plans and specifications and perform simple calculations	2	4
25298	Demonstrate knowledge of roof shingle systems	2	6
25299	Describe roof shingle preparation and installation procedures	3	12
25300	Explain roof shingle installation, re-roofing considerations, and potential problems	4	6

## Foreperson Optional Strand

The following standards are required

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

ID	Title	Level	Credit
14599	Produce a site specific safety plan and strategy for implementation on construction sites	4	5

Planning and Construction > Plumbing, Gasfitting and Drainlaying > Roofing

ID	Title	Level	Credit
21408	Apply foreperson leadership and communication skills on roofing construction projects	4	6
21410	Apply quality assurance practices in the roofing industry	4	8

## Transition Arrangements

### Version 4

Version 4 was issued following review.

Changes to structure and content

- Overall credit value increased from 55-78 to 104-161 or up to 180 with the optional strand. All strands are now at level 4. Holders of version 3 of the qualification with a strand or strands at level 3 will continue to have industry recognition of the qualification.
- All the elective strand titles were update to reflect industry requirements.
- Thirty-one new roofing standards were developed for this qualification to provide companion theory standards for those already existing practical standards, to reflect the stages in skill development leading up to independent installation at Level 4, and to make explicit skills and knowledge that were previously only implied.

- Standards 4249, 21209, 25270, 25272 and 25334 were added to the core compulsory section; standards 25274, 25275 and 25276 were added to the Concrete Roof Tiles strand; standards 10813, 25271, 25277, 25278, 25279, 25280, 25281 and 25282 were added to the Metal Roofing and Wall Cladding strand; standards 25283, 25284, 25285, 25286, 25287 and 25288 were added to the Metal Roof Tiles strand; standards 25289, 25290 and 25291 were added to the Roof Membrane strand; standards 25292, 25293 and 25294 were added to the Liquid Roof Membrane strand; standards 25295, 25296 and 25297 were added to the Torch on Roof Membrane strand; standards 25298, 25299 and 25300 were added to the Roof Shingle strand; standard 14599 was added to the optional Foreperson strand.
- Standard 25273 was added to the following strands: Concrete Roof Tiles, Metal Roof Tiles, Roof Membrane, Liquid Roof Membrane, Torch on Roof Membrane, Roof Shingle; standard 20733 was added to the following strands: Roof Membrane, Liquid Roof Membrane, Torch on Roof Membrane.
- The Translucent Roofing optional strand was removed and standard 10813 was moved to the Metal Roofing and Wall Cladding strand.
- Standard 10808 was removed from all the elective strands in the qualification as the competencies are included in the installation standards 10809-10814.
- Titles, levels and credits of reviewed standards were updated.

For detailed information see Review Summaries on the NZQA website.

All new trainees will be enrolled in programmes leading to this version of the qualification following its registration. People working towards version 3 of this qualification may complete the requirements of that version but it is recommended that all trainees transition to Version 4 of this qualification.

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 qualification**

Version 3 corrected the transition arrangements registered in version 2.

Version 2 was issued following review. This review included the replacement of the National Certificate in Concrete Roof Tiling [Ref: 0312] by a strand within Version 3. Other changes included the addition of three strands and an optional strand; one strand was removed; level changed to 3 or 4 depending on strand; credit range changed to 55-78 depending on strand or 65-92 with an optional strand; standard 10808 was removed from the Core Compulsory and added to individual strands; standards 10813 and 10811 were removed; standards 497, 6401, 6402, 12997, 14609, 15757, and 21413 were added.

The last date for entry to training programmes for version 1 of this qualification was 31 December 2006. The last date for entry to training programmes for the National Certificate in Concrete Roof Tiling [Ref: 0312] was 31 December 2006. The last date for award of the National Certificate in Concrete Roof Tiling [Ref: 0312] was 31 December 2008.

## Other standard setting bodies whose standards are included in the qualification

Building and Construction Industry Training Organisation  
 New Zealand Industry Training Organisation  
 NZQA  
 Opportunity – The Training Organisation

## Certification

The certificate will display the logos of NZQA, The Skills Organisation 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
384	Planning and Construction > Plumbing, Gasfitting and Drainlaying > Roofing	040315	Architecture and Building > Building > Roof Fixing

### 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.