

40215 Maintain roofing rainwater systems

Kaupae Level	3
Whiwhinga Credit	5
Whāinga Purpose	<p>This skill standard recognises the skills required to identify and carryout maintenance requirements for roofing rainwater systems.</p> <p>This skill standard aligns with the New Zealand Certificate in Roofing (Installation) (Level 4) with strands in Concrete or Clay Tile Roof, Liquid Roof Membrane Systems, Metal Tile Roof, Profiled Metal Roof and Wall Cladding, Shingle or Slate Roof, Single Layer Roof Membrane Systems, and Torch On Roof Membrane Systems [Ref:3512-2].</p>

Hua o te ako me Paearu aromatawai | Learning outcomes and assessment criteria

Hua o te ako Learning outcomes	Paearu aromatawai Assessment criteria
1. Identify rainwater handling and discharge systems.	a. Requirements for surface water handling and discharge systems are identified and confirmed as suitable for cladding systems.
	b. Requirements for properties and dimensions of components are identified and confirmed as suitable for cladding systems.
	c. Flow calculations are selected and used to determine components and rainwater runoff systems to meet job specifications.
2. Carry out maintenance requirements for rainwater harvesting systems.	a. Maintenance requirements are identified and determined from manufacturer's specifications.
	b. Systems are maintained to manufacturer's specifications.

Pārongo aromatawai me te taumata paearu | Assessment information and grade criteria

Assessment specifications:

To achieve this standard the candidate must be capable of carrying out maintenance for existing roofing rainwater systems for varying pitch to industry standards.

Industry standards must reflect roofing industry best practice, workplace procedures, and be within acceptable tolerances as defined in New Zealand.

This standard may be assessed in the workplace or a simulated work environment.

Evidence for this standard must be:

- to current and relevant Legislation, Standards, and Codes (including safety),
- in an environmentally sustainable manner,
- with acceptable behaviours.

Cladding systems refer to materials (underlays, claddings, and flashings) and methods that prevent the passage of water from entering the building. The method of installation may vary with the pitch.

Ngā momo whiwhinga | Grades available

Achieved.

Ihirangi waitohu | Indicative content

- Advantages, disadvantages, and considerations of materials and finish coating types.
- Compliance requirements and information sources.
- Roof surface water discharge options of storm water drainage, water harvesting, gutter size, down pipe size, outfalls, rainwater head.
- Considerations of roof surface water discharge factors to safeguarding people from injury and property from damage.
- Methods to determine the correct size components for rainwater handling systems.
- Requirements for storm water discharge and water harvesting of potable water.
- Water contamination and health implications.
- Health and safety considerations to be observed when using a rainwater harvesting system for household supply.
- Components in a rainwater harvesting system and their positioning.
- Design specifications, manufacturer instructions, and relevant codes for the installation and maintenance of rainwater harvesting systems.
- Gutters, internal gutters, spouting, attachment systems, rainwater head, down pipes, overflows, spreader, drains, sumps, scupper, expansion joints.

Rauemi | Resources

Roofing Programme Guidance information available from qualifications@waihangaararau.nz.

Pārongo Whakaū Kounga | Quality assurance information

Ngā rōpū whakatau-paerewa Standard Setting Body	Waihanga Ara Rau Construction and Infrastructure Workforce Development Council
Whakaritenga Rārangi Paetae Aromatawai DASS classification	Planning and Construction > Plumbing, Gasfitting and Drainlaying > Roofing
Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga CMR	0003

Hātepe Process	Putanga Version	Rā whakaputa Review Date	Rā whakamutunga mō te aromatawai Last date for assessment
Rēhitatanga Registration	1	28 November 2024	N/A
Kōrero whakakapinga Replacement information	N/A.		
Rā arotake Planned review date	31 December 2029		

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@waihangaararau.nz to suggest changes to the content of this skill standard.