

## Field      Planning and Construction

### Registration of skill standards and review of unit standards for *Roofing*

Subfield	Domain	ID
Plumbing, Gasfitting and Drainlaying	Roofing	1686-1688, 1690-1692, 1694, 1698, 10809-10813, 10815, 10816, 25270, 25272, 25274, 25276, 25277, 25279-25283, 25285, 25287, 25288, 30010-30027, 30210

Waihangā Ara Rau Construction and Infrastructure Workforce Development Council has completed the review of the unit standards listed above.

**Date new versions published**

**November 2024**

**Planned review date**

**December 2029**

### Summary

Waihangā Ara Rau Construction and Infrastructure Workforce Development Council initiated a review of unit standards in the Roofing domain. This review was triggered by the regular 5-year review cycle and was completed concurrently with a review of the related qualification 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 Systems, and Shingle or Slate Roof [Ref: 3512-1].

Unit standards in this application have been reviewed and replaced with skill standards to update them in line with current industry practice, and to ensure they are fit for purpose.

A series of Technical Advisory Group (TAG) meetings were held between June 2023 and May 2024 to complete this review. The TAG consisted of industry and provider representatives with consent to assess, and representatives from industry stakeholder organisations, including the Roofing Association New Zealand and the Ministry of Business, Innovation and Employment.

Following the review, public consultation was held in May and June 2024. Feedback received was reviewed and decisions were made in consultation with the TAG group representatives, resulting in the changes below.

### Main changes

- 21 unit standards were designated expiring and replaced by 14 new skill standards.
- 26 unit standards were designated expiring without replacement.
- Credit values in the transition from unit standards to skill standards were adjusted to more accurately reflect the notional learning and assessment required for completion.
- The skill standards that replaced unit standards 25277, 25280, 25283, 25285, 30016, 30024, 30025 were increased to level 4 to reflect the complexity of the outcomes required.
- Thirty-eight (38) skill standards were developed to meet current industry requirements and will contribute to the reviewed related qualification [Ref: 3512-2].

**Category C and D unit standards will expire at the end of December 2027**

## 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 > Roofing

ID	Title	Level	Credit	Review Category
1686	Fix battens for concrete or clay roof tiles	4	10	D
1687	Fix underlay for concrete or clay roof tiles	4	5	D
1688	Load concrete or clay roof tiles onto a roof	3	5	D
1690	Fix part concrete or clay roof tiles	4	10	D
1691	Install lead flashings to concrete or clay roof tiles	4	7	C
1692	Inspect the installation of specialist flashings to concrete or clay roof tiles	4	7	C
25276	Demonstrate knowledge of lead and specialist flashings for concrete or clay roof tiles	4	5	C
<b>40193</b>	<b>Install flashing systems for concrete or clay tile roof cladding</b>	<b>4</b>	<b>15</b>	<b>NEW</b>
1694	Install finishes at concrete or clay tile roof terminations	4	8	D
1698	Re-roof an existing concrete or clay tile roof with concrete or clay tiles	3	8	C
<b>40194</b>	<b>Re-clad existing concrete or clay tile roof cladding systems</b>	<b>4</b>	<b>10</b>	<b>NEW</b>
10809	Install single layer roof membrane	4	30	C
<b>40223</b>	<b>Install single layer membrane roof cladding systems</b>	<b>4</b>	<b>35</b>	<b>NEW</b>
10810	Install torch on roof membrane	4	30	C
<b>40228</b>	<b>Install torch on membrane roof cladding systems</b>	<b>4</b>	<b>35</b>	<b>NEW</b>
10811	Apply liquid roof membrane	4	30	C
<b>40200</b>	<b>Install liquid membrane roof cladding systems</b>	<b>4</b>	<b>45</b>	<b>NEW</b>
10812	Install metal roof tiles	4	40	C
25285	Demonstrate knowledge of metal roof tile installation procedures	3	10	C
<b>40205</b>	<b>Install metal tile roof cladding systems</b>	<b>4</b>	<b>30</b>	<b>NEW</b>
10813	Install translucent roof	4	15	D
10815	Install profiled metal roof	4	20	C
10816	Install trough profile roof	4	15	C
<b>40210</b>	<b>Install profile metal roof cladding systems</b>	<b>4</b>	<b>30</b>	<b>NEW</b>
25270	Demonstrate knowledge of heat, moisture, air-flow, corrosion, and wind loadings relative to roof structures	4	5	D
25272	Demonstrate knowledge of rainwater handling systems and discharge factors on roofs	3	4	D
25274	Demonstrate basic knowledge of concrete or clay roof tile systems	2	5	D

ID	Title	Level	Credit	Review Category
25277	Demonstrate knowledge of metal roof and wall cladding systems	3	7	C
25280	Demonstrate knowledge of the system characteristics and installation process for translucent roofing systems	3	8	C
<b>40211</b>	<b>Determine profile metal roof and wall cladding system requirements</b>	<b>4</b>	<b>15</b>	<b>NEW</b>
25279	Demonstrate and apply knowledge of metal flashings and penetrations	4	10	C
<b>40208</b>	<b>Install flashing systems for profile metal roof cladding</b>	<b>4</b>	<b>15</b>	<b>NEW</b>
25281	Describe re-roofing an existing metal roof	3	5	D
25282	Form and install flashings for metal roof and wall cladding	4	25	D
25283	Demonstrate knowledge of metal roof tile systems	3	7	C
<b>40206</b>	<b>Determine metal tile roof cladding system requirements</b>	<b>4</b>	<b>15</b>	<b>NEW</b>
25287	Explain metal roof tile specialist flashing and penetration installations	4	7	C
25288	Install flashings for metal roof tiles	4	15	C
<b>40203</b>	<b>Install flashing systems for metal tile roof cladding</b>	<b>4</b>	<b>15</b>	<b>NEW</b>
30010	Demonstrate knowledge of the building and construction industry regulatory requirements as applied in the roofing sector	4	12	D
30011	Apply the building and construction industry regulatory requirements as a roofer	4	8	D
30012	Demonstrate knowledge of roof installation preparation, planning, and organisation	4	6	D
30013	Demonstrate knowledge of roof installation work preliminary site checks	4	4	D
30014	Carry out roof installation work preliminary site checks	4	6	D
30015	Demonstrate and apply knowledge of the roofing industry ethical work practices and working with others	4	6	D
30016	Demonstrate knowledge of roof membrane systems	3	6	D
30017	Demonstrate knowledge of roof membrane system preparation and installation procedures	4	7	D
30018	Demonstrate knowledge of roof membrane system installation, re-roofing considerations, and potential problems	4	8	D
30019	Demonstrate and apply knowledge of roofing industry workplace communications	2	5	D
30020	Demonstrate knowledge of roofing workplace safety considerations	4	4	D
30021	Fix full concrete or clay roof tiles	4	15	D
30022	Perform roof calculations, interpret roofing plans and specifications, and develop a materials ordering list	3	5	D
30023	Install roof shingles or slates	4	45	C
<b>40218</b>	<b>Install shingle or slate roof cladding systems</b>	<b>4</b>	<b>30</b>	<b>NEW</b>
30024	Demonstrate knowledge of shingle or slate roof systems	2	10	C
30025	Demonstrate knowledge of shingle or slate roof work preparation and installation procedures	3	20	C
<b>40219</b>	<b>Determine shingle or slate roof cladding system requirements</b>	<b>4</b>	<b>15</b>	<b>NEW</b>

ID	Title	Level	Credit	Review Category
30026	Demonstrate knowledge of shingle or slate roof installation, re-roofing considerations, and potential problems	4	10	D
30027	Demonstrate knowledge of re-roofing an existing metal tile roof	3	6	D
30210 40213	Install profiled metal wall cladding <b>Install profile metal wall cladding and flashing systems</b>	4 4	10 25	C <b>NEW</b>
40195	<b>Install concrete or clay tile roof cladding systems</b>	4	30	<b>NEW</b>
40196	<b>Determine concrete or clay tile roof cladding system requirements</b>	4	15	<b>NEW</b>
40197	<b>Repair and maintain concrete or clay tile roof cladding systems</b>	3	10	<b>NEW</b>
40198	<b>Install flashing systems for liquid membrane roof cladding</b>	4	15	<b>NEW</b>
40199	<b>Re-clad existing liquid membrane roof cladding systems</b>	4	10	<b>NEW</b>
40201	<b>Determine liquid membrane roof cladding system requirements</b>	4	25	<b>NEW</b>
40202	<b>Repair and maintain liquid membrane roof cladding systems</b>	3	10	<b>NEW</b>
40204	<b>Re-clad existing metal tile roof cladding systems</b>	4	10	<b>NEW</b>
40207	<b>Repair and maintain metal tile roof cladding systems</b>	3	10	<b>NEW</b>
40209	<b>Re-clad existing profile metal roof and wall cladding systems</b>	4	10	<b>NEW</b>
40212	<b>Repair and maintain profile metal roof and wall cladding systems</b>	3	10	<b>NEW</b>
40214	<b>Carry out basic installation tasks for roof cladding systems</b>	3	10	<b>NEW</b>
40215	<b>Maintain roofing rainwater systems</b>	3	5	<b>NEW</b>
40216	<b>Install flashing systems for shingle or slate roof cladding</b>	4	15	<b>NEW</b>
40217	<b>Re-clad existing shingle or slate roof cladding systems</b>	4	10	<b>NEW</b>
40220	<b>Repair and maintain shingle or slate roof cladding systems</b>	3	10	<b>NEW</b>
40221	<b>Install flashing systems for single layer membrane roof cladding</b>	4	30	<b>NEW</b>
40222	<b>Re-clad existing single layer membrane roof cladding systems</b>	4	10	<b>NEW</b>
40224	<b>Determine single layer membrane roof cladding system requirements</b>	4	20	<b>NEW</b>
40225	<b>Repair and maintain single layer membrane roof cladding systems</b>	3	10	<b>NEW</b>
40226	<b>Install flashing systems for torch on membrane roof cladding</b>	4	30	<b>NEW</b>
40227	<b>Re-clad existing torch on membrane roof cladding systems</b>	4	10	<b>NEW</b>
40229	<b>Determine torch on membrane roof cladding system requirements</b>	4	20	<b>NEW</b>
40230	<b>Repair and maintain torch on membrane roof cladding systems</b>	3	10	<b>NEW</b>