

Title	Install metal roof tiles		
Level	4	Credits	40

Purpose	<p>This unit standard is intended for use in the training and assessment of people carrying out metal roof tiles work and covers the installation of metal roof tiles.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> – confirm frame and substrate are complete and materials and availability of equipment for installation of metal roof tiles; – complete preparations for the installation of metal roof tiles; – carry out installation of metal roof tiles; and – finish metal tile roof work.
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Classification	Plumbing, Gasfitting and Drainlaying > Roofing
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Available grade	Achieved
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Guidance Information

- 1 This unit standard has been developed for learning and assessment on-job and off-job.
- 2 References

Construction Contracts Act 2002;
 Historic Places Act 1993;
 Local Government Act 2002;
 Building Act 2004 and associated regulations;
 Health and Safety at Work Act 2015;
 Resource Management Act 1991;
 Acceptable Solutions and Verification Methods for New Zealand Building Code Clause E2 External Moisture;
 Licensed Building Practitioner Scheme – Understanding the Regulatory Environment Booklet – available at: <http://www.business.govt.nz/lbp/the-board/getting-licensed/applying-for-licensing>;
 NZS 3604:2011 Timber-framed buildings;
 NZS 3902:2004 Housing, alterations and small buildings contract;
 NZS 4121:2001, Design for access and mobility: Buildings and associated facilities;
 New Zealand Building Code Hand Book – available at: <http://www.building.govt.nz/building-code-compliance/building-code-and-handbooks/building-code-handbook>;
 and all subsequent amendments and replacements.

- 3 This unit standard applies to both new and or re-roofing installations.
- 4 Range
- a Candidates must refer to current legislation and Standards during assessment.
 - b Demonstration of safe working practices are essential components of assessment of this unit standard.
 - c All activities and evidence presented for all outcomes and performance criteria in this unit standard must be in accordance with:
 - i legislation;
 - ii policies and procedures;
 - iii ethical codes;
 - iv Standards – may include but are not limited to those cited in the New Zealand Building Code Hand Book;
 - v applicable site, enterprise, and industry practice; and,
 - vi manufacturers' instructions, specifications, and data sheets.

Outcomes and performance criteria

Outcome 1

Confirm frame and substrate are complete and that the materials and equipment are available for the installation of metal roof tiles.

Performance criteria

- 1.1 Confirm that frame and substrate are complete and conform to job requirements.
- 1.2 Assess the job and draw up a plan of work.
- 1.3 Ensure that the materials confirmed for the job are consistent with the job specifications, New Zealand Metal Roof and Wall Cladding Code of Practice, and manufacturers' specifications.
- Range includes but is not limited to – metal tiles, flashings, sealants, fasteners, accessories, underlay.
- 1.4 Confirm equipment availability.
- Range includes but is not limited to – scaffolding, ladders, hand tools, power tools, brushes, sealant gun, saws, roof walking cleats, pop riveter, tile cutter, tile bender.

Outcome 2

Complete preparations for the installation of metal roof tiles.

Performance criteria

- 2.1 Set out the bottom course and subsequent courses.

2.2 Fix battens and underlay.

2.3 Set out valleys, where present.

Range string or chalk line or straight edge to transfer line, secure pin out nails.

2.4 Install valley trays, flashings, and vermin proofing.

Outcome 3

Carry out installation of metal roof tiles.

Performance criteria

3.1 Load tiles onto roof.

3.2 Lay tiles in the sequence consistent with manufacturers' instructions.

Outcome 4

Finish metal tile roof work.

Performance criteria

4.1 Place and finish ridges, barges, hips, cut tiles, and valleys to a watertight and secure condition.

4.2 Correct any defects.

4.3 Remove surplus material including swarf and leave roof and site in a tidy and safe condition that allows any further work to be carried out safely.

Planned review date	31 December 2023
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	21 May 1997	31 December 2020
Review	2	27 October 2006	31 December 2020
Review	3	23 January 2009	31 December 2020
Review	4	16 March 2017	N/A
Rollover	5	25 August 2022	N/A

Consent and Moderation Requirements (CMR) reference	0003
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

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