

<b>Title</b>	<b>Demonstrate knowledge of metal roof tile installation procedures</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	<p>This unit standard is intended for use in the training and assessment of people carrying out metal roof tile installation work and covers knowledge of metal roof tile installation procedures.</p> <p>People credited with this unit standard are able to describe:</p> <ul style="list-style-type: none"> <li>- the process of installing metal roof tiles; and</li> <li>- vermin proofing for metal roof tiles.</li> </ul>
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<b>Classification</b>	Plumbing, Gasfitting and Drainlaying > Roofing
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 This unit standard has been developed for learning and assessment 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 roof and 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.

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## Outcomes and performance criteria

### Outcome 1

Demonstrate knowledge of the process of installing metal roof tiles.

#### Performance criteria

- 1.1 Describe pin out for battens in terms of matching the tile product type.
- Range where there is no link to eave or ridge, where rafters don't come down to the eave.
- 1.2 Explain installation of valley trays.
- Range stop ends, joins, sealant, laps, junctions, fixing, tags.
- 1.3 Describe installation of underlay and battens.
- 1.4 Describe the processes for laying and fastening full tiles.
- 1.5 Describe the processes to measure, cut, bend and fit part tiles.
- 1.6 Describe the installation and fixing of flashings and accessories.
- 1.7 Describe sweep and touch-up requirements.

### Outcome 2

Demonstrate knowledge of vermin proofing for metal roof tiles.

#### Performance criteria

- 2.1 Identify and describe potential areas of vermin intrusion.
- 2.2 Describe methods of preventing vermin intrusion.

<b>Replacement information</b>	This unit standard and unit standard 10812 were replaced by skill standard 40205.
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**This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.**

#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	23 January 2009	31 December 2020
Review	2	16 March 2017	31 December 2027
Rollover	3	25 August 2022	31 December 2027
Review	4	28 November 2024	31 December 2027

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