

<b>Title</b>	<b>Demonstrate knowledge of shingle or slate roof work preparation and installation procedures</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>20</b>

<b>Purpose</b>	<p>This unit standard is intended for use in the training and assessment of people carrying out shingle or slate roof installation work and covers knowledge of the preparation and installation of roof shingle systems.</p> <p>People credited with this unit standard are able to demonstrate knowledge of the:</p> <ul style="list-style-type: none"> <li>- planning and checks required before installing roof shingles or slates;</li> <li>- process of installing and checking a roof shingle or slate substrate and battens;</li> <li>- process of installing asphalt roof shingles;</li> <li>- process of installing wooden shingles;</li> <li>- process of installing roofing slates; and</li> <li>- installation considerations for flashings on roof shingles or slates.</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 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 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 planning and checks required before installing roof shingles or slates.

### Performance criteria

- 1.1 Describe the function of plans and specifications in relation to a job sheet, material schedule, and work schedule.
- 1.2 Describe site check activities in accordance with common job specifications.
- Range preparing the site, health and safety checks and signs, site hazards.
- 1.3 Describe notifiable work activities and procedures relevant to roof shingle or slate installation in accordance with WorkSafe requirements.
- 1.4 Describe roof framing checks that are used to verify the builder's work before commencing roof installation.
- 1.5 Describe on-site storage of shingles or slates in accordance with site procedures.
- 1.6 Explain the purpose of an initial site meeting in terms of job organisation.

**Outcome 2**

Demonstrate knowledge of the process of installing and checking a roof shingle or slate substrate and battens.

**Performance criteria**

- 2.1 Identify substrate sheet pattern, fixing, and expansion gaps.
- 2.2 Identify potential defects in substrate and battens.
- 2.3 Identify checking the structure for conformity with the New Zealand Building Code.
- 2.4 Describe underlay and membrane laying procedures in accordance with manufacturers' recommendations.

**Outcome 3**

Demonstrate knowledge of the process of installing asphalt roof shingles.

**Performance criteria**

- 3.1 Explain how to mark out plywood substrate.
- 3.2 Identify the effects of asphalt shingle temperature on shingle installation.
- 3.3 Describe the laying procedure for the initial course, ridges, and hip cappings.
- 3.4 Explain how to form valleys.  
Range open valley, closed valley.
- 3.5 Describe flashing installation for an asphalt shingle roof.
- 3.6 Explain the use of asphalt roof cement to seal or bond shingles.

**Outcome 4**

Demonstrate knowledge of the process of installing wooden shingles.

**Performance criteria**

- 4.1 Describe the laying procedure for the starter course and subsequent courses.
- 4.2 Describe the laying procedure options for timber ridges and hip flashings.
- 4.3 Describe the laying procedure for valleys.
- 4.4 Describe flashing installation for a wooden shingle roof.

**Outcome 5**

Demonstrate knowledge of the process of installing roofing slates.

**Performance criteria**

- 5.1 Describe the laying procedure for the starter course and subsequent courses.
- 5.2 Describe the laying procedure for slate ridges and hip flashings.
- 5.3 Explain how to form slate valleys.
- 5.4 Describe flashing installation for a slate roof.

**Outcome 6**

Demonstrate knowledge of the installation considerations for flashings on roof shingles or slates.

**Performance criteria**

- 6.1 Identify examples of penetrations in accordance with the New Zealand Building Code.
- 6.2 Explain lap allowances and fixings for flashings.
- 6.3 Describe sealant application to seal flashing joints.

<b>Replacement information</b>	<p>This unit standard and unit standard 30024 were replaced by skill standard 40219.</p> <p>This unit standard replaced unit standard 25299.</p>
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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	16 March 2017	31 December 2027
Rollover	2	25 August 2022	31 December 2027
Review	3	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>.