

Title	Perform roof calculations, interpret roofing plans and specifications, and develop a materials ordering list		
Level	3	Credits	5

Purpose	<p>This unit standard is for people carrying out roof installation and covers calculations relating to roofing and the development of material ordering lists.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> - perform roof material calculations; - interpret roofing plans and specifications; and - develop a roof material ordering list.
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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.
- 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.

Outcomes and performance criteria

Outcome 1

Perform roof material calculations.

Performance criteria

1.1 Calculate pitch from drawings.

1.2 Calculate roof areas and coverage requirements.

1.3 Calculate roof material quantities from working drawings.

Range may include but is not limited to – cladding, underlay, netting, fasteners, building paper, ridging, flashings, ridges, valleys, guttering, barges.

1.4 Calculate wastage factors.

Outcome 2

Interpret roofing plans and specifications.

Performance criteria

2.1 Identify parts of drawings and specifications where roofing information can be obtained.

Range may include but is not limited to – elevations, plan views, sections, detail drawings, scale drawings, full size.

2.2 Determine dimensions and quantities of materials.

Outcome 3

Develop a roof materials ordering list.

Performance criteria

- 3.1 Identify all materials stipulated in the plans and specifications.
- 3.2 Create a roof material ordering list from plans and specifications and allow for wastage.

Replacement information	This unit standard replaced unit standards 25271 and 25273.
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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
Revision	2	20 July 2017	31 December 2027
Rollover	3	25 August 2022	31 December 2027
Review	4	28 November 2024	31 December 2027

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>.