

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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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	16 March 2017	N/A
Revision	2	20 July 2017	N/A
Rollover	3	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.