

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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Explanatory notes

- 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 evidence requirements 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 evidence requirements

Outcome 1

Perform roof material calculations.

Evidence requirements

- 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.

Evidence requirements

- 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.

Evidence requirements

- 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 2021
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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

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>.

Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact The Skills Organisation reviewcomments@skills.org.nz if you wish to suggest changes to the content of this unit standard.