

Title	Install single layer roof membrane		
Level	4	Credits	30

Purpose	<p>This unit standard is intended for use in the training and assessment of people carrying out the installation of single layer roof membrane systems.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> – confirm materials and availability of equipment for installation of single layer roof membrane; – complete preparations for the installation of single layer roof membrane; and – carry out installation of roof membrane; and – apply, complete, and finish single layer roof membrane installation.
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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 or 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

Confirm materials and availability of equipment for installation of single layer roof membrane.

Performance criteria

- 1.1 Assess the job and draw up a plan of work.
- Range includes but is not limited to – task analysis, checklists.
- 1.2 Confirm that the materials for the job are consistent with the job and manufacturers' specifications.
- Range includes but is not limited to – membrane, cladding, flashings, sealants, tapes, cleaners, fillers.
- 1.3 Confirm equipment availability.
- Range includes but is not limited to – fire extinguisher, scaffolding, ladders, tools, brushes, belt sander, airless spray units, propane cylinder and torch, angle grinder, heat gun, saws, router, pop riveter, rollers.

Outcome 2

Complete preparations for the installation of single layer roof membrane.

Performance criteria

- 2.1 Establish an on-site dangerous goods store, where required, and set up a personnel control, goods controls and notification system in accordance with the Health and Safety at Work Act 2015 requirements.

- 2.2 Install fire extinguishers on site and notify workers of the location, extinguisher type, and extinguisher capabilities.
- 2.3 Prepare area in accordance with site requirements.
- Range area cleaned with blower or vacuum cleaner, moisture content of substrate within accepted parameters, ambient temperature within manufacturers' instructions.
- 2.4 Identify any defects in substrate and rectify and rout lap rebates where required.
- 2.5 Install roof vents where required.

Outcome 3

Carry out installation of roof membrane.

Performance criteria

- 3.1 Unroll membrane to relax and relieve stress, and cut to required size.
- 3.2 Install membrane sequentially.
- Range primer where required, grid layout set, corner under tape applied, sheets positioned and spot tacked, material folded back in sequence to mask laps.
- 3.3 Apply adhesive and substrate joint tape lay sheets from centre to outside without stretching or forcing the membrane.

Outcome 4

Apply, complete, and finish single layer roof membrane installation.

Performance criteria

- 4.1 Sweep and roll laid sheets to remove air pockets.
- 4.2 Clean laps with solvent, and apply lap tape and adhesives.
- 4.3 Roll and apply laps over flashings.
- 4.4 Roll entire roof in accordance with manufacturers' instructions.
- 4.5 Correct any defects.
- 4.6 Remove surplus material and leave roof and site in a tidy and safe condition that allows any further work to be carried out safely.

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	21 May 1997	31 December 2020
Review	2	27 October 2006	31 December 2020
Review	3	23 January 2009	31 December 2020
Review	4	16 March 2017	N/A
Rollover	5	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.