

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.

Replacement information	This unit standard was replaced by skill standard 40223.
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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	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	31 December 2027
Rollover	5	25 August 2022	31 December 2027
Review	6	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>.