

<b>Title</b>	<b>Produce a composite laminate by vacuum bagging</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>2</b>

<b>Purpose</b>	People credited with this unit standard are able to prepare materials and equipment and produce a laminate item by vacuum bagging.
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<b>Classification</b>	Composites > Production Composites
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Definitions**

*Equipment* refers to applicators, dispensers, measuring devices, cutters and cleaning utensils.

*Job specification* refers to the standard requirements of the job being undertaken.

*Product specification* refers to the documented requirements of the manufactured item.

*Workplace policies and procedures* refers to the documented procedures and policies providing guidelines of the tasks and activities carried out in the workplace. This typically includes relevant health and safety requirements to eliminate hazard/risk in the workplace.
- 2 All work practices must meet recognised codes of practice such as the Code of Practice for Health and Safety in the Manufacture of Composites Based on Synthetic Resins (Fibreglass), 1998, available at <http://composites.org.nz/publications/code-of-practice/> and workplace policies and procedures (where these exceed code) for personal, product, and workplace health and safety, and must meet the obligations required under the Health and Safety at Work Act 2015, Resource Management Act 1991, and any subsequent amendments.**
- 3 The laminate item produced for this unit standard must include external and internal angles, and concave and convex surfaces.**

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### Outcomes and performance criteria

#### Outcome 1

Prepare materials and equipment to produce a composite laminate item by vacuum bagging.

**Performance criteria**

1.1 Materials and equipment are prepared in accordance with job specifications.

Range resins, reinforcements, catalysts, cores, fillers, mastic, bag, bleed stack.

**Outcome 2**

Produce a composite laminate item by vacuum bagging.

**Performance criteria**

2.1 Composite laminate item is produced in accordance with product and job specifications.

2.2 Finished item is checked and remedial action is taken if required to ensure product specifications are met.

<b>Planned review date</b>	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	9 December 1994	31 December 2020
Revision	2	14 April 1997	31 December 2020
Revision	3	5 January 1999	31 December 2020
Review	4	26 September 2001	31 December 2020
Revision	5	12 February 2003	31 December 2020
Rollover and Revision	6	21 August 2009	31 December 2020
Review	7	31 May 2018	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0136
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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 NZ Marine and Composites ITO [training@nzmarine.com](mailto:training@nzmarine.com) if you wish to suggest changes to the content of this unit standard.