

<b>Title</b>	<b>Produce a laminated item using resins that cure at elevated temperatures</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>6</b>

<b>Purpose</b>	People credited with this unit standard are able to prepare materials and equipment, and produce a laminated item using resins that cure at elevated temperatures.
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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 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://www.worksafe.govt.nz> and documented worksite health and safety procedures (where these exceed code) for personal, product, and worksite health and safety, and must meet the obligations required by legislation.
- 2 Learners undertaking assessment against this unit standards are expected to comply with the following legislation and any subsequent amendments –
  - Health and Safety at Work Act 2015
  - Health and Safety in Employment Regulations 1995
  - Resource Management Act 1991
  - Hazardous Substances and New Organism Act 1996.
- 3 Definitions
 

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

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

*Process specifications* refers to the documented instructions and method of applying the materials to manufacture the item. (For example: time, materials, temperature, application rates).

*Product specifications* 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.
- 4 The laminated item produced for this unit standard must include external and internal angles, concave, and convex surfaces.

## Outcomes and performance criteria

### Outcome 1

Prepare materials and equipment to produce a laminated item using resins.

#### Performance criteria

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

Range resins, catalysts, reinforcements, cores, fillers.

### Outcome 2

Produce a laminated item using resins that cure at elevated temperatures.

#### Performance criteria

2.1 Laminated item is produced using resins that cure at elevated temperatures, and in accordance with product and process 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 2021
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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 2018
Revision	2	14 April 1997	31 December 2018
Revision	3	5 January 1999	31 December 2018
Review	4	26 September 2001	31 December 2018
Revision	5	12 February 2003	31 December 2018
Rollover and Revision	6	21 August 2009	31 December 2018
Review	7	20 April 2017	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 NZMAC ITO [training@nzmarine.com](mailto:training@nzmarine.com) if you wish to suggest changes to the content of this unit standard.