

Title	Cure an item in an autoclave for composites		
Level	4	Credits	3

Purpose	People credited with this unit standard are able to prepare materials and equipment, and cure an item in an autoclave machine for composites.
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Classification	Composites > Production Composites
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Available grade	Achieved
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Guidance Information

- 1 All required equipment must be set up, started up, operated, and shutdown in accordance with workplace policies and procedures.
- 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 (Fiberglass), 1998, available at <http://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.
- 3 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
 - Resource Management Act 1991 and any subsequent amendments.
 - Hazardous Substances and New Organism Act 1996.
- 4 **Definitions**

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

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 policies to eliminate hazard or risk in the workplace.

Outcomes and performance criteria

Outcome 1

Prepare materials and equipment to cure an item in an autoclave machine.

Performance criteria

- 1.1 Materials and equipment are prepared in accordance with product and process specification and workplace policies and procedures.
- 1.2 Autoclave machine is calibrated in accordance with manufacturer's instructions and workplace policies and procedures.

Outcome 2

Cure an item in an autoclave machine for composites.

Performance criteria

- 2.1 Materials are loaded into autoclave machine in accordance with process specification and workplace policies and procedures.
- 2.2 Cured item is unloaded from the autoclave machine in accordance with process specification and workplace policies and procedures.
- 2.3 Finished item is checked and remedial action is taken if required to ensure product specifications are met.

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	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
Rollover and Revision	5	21 August 2009	31 December 2018
Review	6	20 April 2017	N/A

Consent and Moderation Requirements (CMR) reference	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 if you wish to suggest changes to the content of this unit standard.