

Title	Attach fixings and fastenings to composite products		
Level	4	Credits	4

Purpose	People credited with this unit standard are able to prepare materials and equipment; and attach fixings and fastenings to composite products.
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Classification	Composites > Production Composites
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Available grade	Achieved
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Guidance Information

- 1 All work practices must meet recognised codes of practice 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 standard 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 Organisms Act 1996.
- 3 Assessment must include secondary bonding of fixings and fastenings.
- 4 Definitions

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

Product specification refers to the documented requirements of the manufacture item.

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

Workplace policies and procedures refer 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.

Outcomes and performance criteria

Outcome 1

Prepare materials and equipment to attach fixings and fastenings.

Performance criteria

- 1.1 Materials and equipment are prepared and matched to the requirements of the product specification.

Outcome 2

Attach fixings and fastenings to composite products.

Range evidence of two attached internal fixings or fastenings, and two external fixings or fastenings which may be structure reinforcement.

Performance criteria

- 2.1 Materials are used in accordance with process and product specifications, and workplace policies and procedures.

Range resins, structural reinforcements, catalysts, cores, fillers.

- 2.2 Fixings and fastenings meet operational requirements.

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.