

Title	Design an item for composite production technology		
Level	6	Credits	25

Purpose	People credited with this unit standard are able to design an item feasible for composite production technology by producing a design brief and designing the item.
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Classification	Composites > Specification and Design Composites
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Available grade	Achieved
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Guidance Information

1 Definitions

Process specifications refers to the documented instructions and method of applying the materials to manufacture the item which includes time, materials, temperature, and application rates.

Product specifications refers to the documented requirements of the manufactured item.

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 policies to manage risk in the workplace.

- 2 All workplace policies and procedures 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 and any subsequent amendments. This code, and other relevant codes of practice, are available at <https://worksafe.govt.nz/>.

Outcomes and performance criteria

Outcome 1

Produce a design brief for an item feasible for composite production technology.

Performance criteria

- 1.1 Design brief meets client's product end use requirements.
- 1.2 Design brief includes an analysis of required composite properties.
- 1.3 Design brief includes an analysis of production constraints.

Outcome 2

Design the item for composite production technology.

Performance criteria

- 2.1 Design product specifications are consistent with the design brief.
- 2.2 Design process specifications are consistent with the design brief, the code of practice, and are in accordance with workplace policies and procedures.
- 2.3 Design meets safety and regulatory requirements.

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Status information and last date for assessment for superseded versions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	31 March 1995	31 December 2025
Revision	2	14 April 1997	31 December 2025
Revision	3	5 January 1999	31 December 2025
Review	4	26 September 2001	31 December 2025
Rollover and Revision	5	21 August 2009	31 December 2025
Rollover and Revision	6	26 July 2018	31 December 2025
Review	7	25 August 2022	31 December 2025

Consent and Moderation Requirements (CMR) reference

0136

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.