

Title	Produce plug or pattern specification for composites		
Level	5	Credits	12

Purpose	People credited with this unit standard are able to produce a plug or pattern specification by producing a design brief, selecting materials to be included, and designing a plug or a pattern specification.
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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 a plug or pattern.

Performance criteria

- 1.1 Design brief produced meets client product end use requirements.
- 1.2 Design brief establishes safety hazards and preventative action to be taken in accordance with the code of practice.

Outcome 2

Select materials to be included in the plug or pattern specification.

Performance criteria

2.1 Materials chosen ensure that plug or pattern is producible.

2.2 Materials chosen comply with design brief.

Outcome 3

Design plug or pattern specification.

Performance criteria

3.1 Specification meets material parameters and design brief.

3.2 Documentation of product and process specifications describes plug or pattern and material parameters and is consistent with workplace policies and procedures.

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Status information and last date for assessment for superseded versions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	9 December 1994	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>.