

Title	Manufacture tooling used to fabricate and repair aeronautical composite components		
Level	4	Credits	35

Purpose	People credited with this unit standard are able to: plan manufacturing tasks; manufacture or repair aeronautical composite tooling; and carry out task completion activities.
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Classification	Aeronautical Engineering > Aeronautical Composites
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Available grade	Achieved
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Guidance Information

- 1 All tasks must be carried out in accordance with enterprise procedures.
- 2 Definition
Enterprise procedures – procedures used by the organisation carrying out the work and applicable to the tasks being carried out. Examples are – standard operating procedures, safety procedures, equipment operating procedures, codes of practice, quality management practices and standards, procedures to comply with legislative and local body requirements.

Outcomes and performance criteria

Outcome 1

Plan manufacturing tasks.

Performance criteria

- 1.1 Task is determined by reviewing documentation.
- 1.2 Procedure for manufacturing tooling is determined.
- 1.3 Resources are obtained and checked for serviceability or status.

Range	may include but is not limited to – publications, materials, tools, equipment, safety equipment.
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- 1.4 Tooling manufacturing sketches are produced, to meet manufacturer's specifications.

Outcome 2

Manufacture or repair aeronautical composite tooling.

Performance criteria

- 2.1 Materials are cut to meet manufacturer's specifications.
- Range marking out, wastage minimised.
- 2.2 Tooling is manufactured or repaired to meet manufacturer's specifications.
- Range may include but is not limited to – cut, formed, joined, inspected, finished.
- 2.3 Manufacturing defects are rectified.
- 2.4 Tooling is prepared for use.
- Range shape checked against drawing and master; release agent applied.
- 2.5 Tooling is prepared for storage or transit.
- Range release agent removed, documentation completed, packed, despatched.
- 2.6 Inspections are obtained.
- 2.7 Documentation is completed.

Outcome 3

Carry out task completion activities.

Performance criteria

- 3.1 Completion activities specific to the task and work area are carried out.
- Range may include but is not limited to – tool control, cleanliness, tidiness, return of publications, preparation for next activity, return of aircraft and systems to normal.
- 3.2 Resources are checked for serviceability and returned to service or storage.
- Range tools, equipment, safety equipment.
- 3.3 Leftover items, parts, and materials are disposed of.
- Range may include but is not limited to – serviceable, unserviceable, surplus, waste, scrap, hazardous.

Planned review date	31 December 2027
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	19 June 1995	31 December 2016
Revision	2	7 August 1997	31 December 2016
Revision	3	8 May 2001	31 December 2016
Review	4	26 March 2007	31 December 2016
Revision	5	12 February 2010	31 December 2016
Review	6	24 October 2014	31 December 2021
Review	7	26 March 2020	N/A
Rollover and Revision	8	26 April 2024	N/A

Consent and Moderation Requirements (CMR) reference	0028
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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 Ringa Hora Services Workforce Development Council qualifications@ringahora.nz if you wish to suggest changes to the content of this unit standard.