

<b>Title</b>	<b>Design tooling used to fabricate and repair aeronautical composite components</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>25</b>

<b>Purpose</b>	People credited with this unit standard are able to design tooling used to fabricate and repair aeronautical composite components.
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<b>Classification</b>	Aeronautical Engineering > Aeronautical Composites
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<b>Available grade</b>	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.

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### Outcomes and performance criteria

#### Outcome 1

Design tooling used to fabricate and repair aeronautical composite components.

#### Performance criteria

- 1.1 Task is determined by reviewing documentation.
- 1.2 Resources are obtained and checked for serviceability or status.  
 Range may include but is not limited to – publications, equipment, materials.
- 1.3 Tooling manufacturing sketches and/or drawings are produced to meet manufacturer's specifications.

Range may include but is not limited to – types of tooling, tooling configurations, materials to be used, material and resin characteristics, tolerance build-ups, spring-back allowance, flanged tools, thermal expansion, controlled surfaces, release agents, backup structures, substrate fabrication, prototype, production and/or master tooling, measurements, vendor drawings.

1.4 Documentation is completed.

1.5 Inspections are obtained.

1.6 Certification for completed task is obtained.

<b>Planned review date</b>	31 December 2024
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#### Status information and last date for assessment for superseded versions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

<b>Consent and Moderation Requirements (CMR) reference</b>	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 ServiceIQ [qualifications@serviceiq.org.nz](mailto:qualifications@serviceiq.org.nz) if you wish to suggest changes to the content of this unit standard.