

Title	Remove coatings from aircraft, aircraft components or aeronautical equipment by plastic media blasting		
Level	4	Credits	20

Purpose	People credited with this unit standard are able to: prepare to remove the coating system from aircraft, aircraft components, or aeronautical equipment; remove the coating system from aircraft, aircraft components, or aeronautical equipment by plastic media blasting; and complete finishing activities.
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Classification	Aeronautical Engineering > Aircraft Painting
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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

Prepare to remove the coating system from aircraft, aircraft components, or aeronautical equipment.

Performance criteria

- 1.1 Task is determined by reviewing maintenance documentation and enterprise procedures.
- 1.2 Resources are obtained and checked for serviceability or status.
 Range may include but are not limited to – publications, materials, equipment, safety equipment, clothing, hazard warning signs.
- 1.3 Aircraft, aircraft components, or aeronautical equipment identification is matched with documentation.

- 1.4 Environment is established.
- Range temperature, lighting, ventilation, work area secured.
- 1.5 Ground equipment is positioned.
- 1.6 Aircraft, aircraft component, or aeronautical equipment is prepared and masked.
- Range may include but is not limited to – substrate identification, skin mapping.

Outcome 2

Remove the coating system from aircraft, aircraft components, or aeronautical equipment by plastic media blasting.

Range plastic media blasting in cabinets or open blasting machines.

Performance criteria

- 2.1 Pre-removal processes are carried out
- Range may include but is not limited to – earthed, Aero Almen strip test, stand-off distance calculated, blast impingement angle calculated, dwell time calculated, nozzle/hose line pressure test, media purity confirmed.
- 2.2 Coating is removed using plastic media blasting.
- 2.3 Aircraft, aircraft components, or aeronautical equipment are washed or cleaned.
- 2.4 Aircraft, aircraft components, or aeronautical equipment masking is removed.
- 2.5 Inspections are obtained.
- Range may include but is not limited to – independent, duplicate, progressive, surface roughness scans.

Outcome 3

Complete finishing activities.

Performance criteria

- 3.1 Resources are checked for serviceability.
- 3.2 Waste and surplus materials are disposed of or recycled.
- Range may include but is not limited to – serviceable, unserviceable, surplus, waste, scrap, hazardous.
- 3.3 Documentation is completed.

3.4 Completion activities specific to the task and work area are carried out.

Range may include but are not limited to – tool control, cleanliness, tidiness, return of publications, preparation for next activity, return of aircraft and systems to normal.

Planned review date	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	19 May 2006	31 December 2016
Review	5	18 June 2014	31 December 2021
Review	6	26 March 2020	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 ServiceIQ qualifications@serviceiq.org.nz if you wish to suggest changes to the content of this unit standard.