

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 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	19 May 2006	31 December 2016
Review	5	18 June 2014	31 December 2021
Review	6	26 March 2020	N/A
Rollover and Revision	7	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.