

<b>Title</b>	<b>Repair or overhaul aircraft mechanical ice and rain protection system components</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>10</b>

<b>Purpose</b>	People credited with this unit standard are able to: prepare to repair or overhaul aircraft mechanical ice and rain protection system components; locate defects in aircraft mechanical ice and rain protection system components; repair or overhaul aircraft mechanical ice and rain protection system components; test and adjust aircraft mechanical ice and rain protection system components; and complete the repair or overhaul of aircraft mechanical ice and rain protection system components.
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<b>Classification</b>	Aeronautical Engineering > Aircraft Mechanical Repair and Overhaul
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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.
- 3 Repair or overhaul activities are those usually carried out in a specialist bay or workshop.
- 4 System components may include pumps, reservoirs, valves, filters, plumbing, distributors, heating elements.
- 5 The scope of the system that this standard relates to is described in ATA iSpec 2200, chapter 30.

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### Outcomes and performance criteria

#### Outcome 1

Prepare to repair or overhaul aircraft mechanical ice and rain protection system components.

**Performance criteria**

- 1.1 Task is determined by reviewing maintenance documentation and enterprise procedures.
- 1.2 Component identity is confirmed with documentation.
- 1.3 Work area is prepared, and resources obtained and checked for serviceability or status.
- Range may include but is not limited to – publications, materials, tools, equipment, safety equipment, environmental conditions established.
- 1.4 Component is prepared for repair or overhaul.
- Range may include but is not limited to – clean, inspect.
- 1.5 Next task is determined and documented.
- Range may include but is not limited to – locate defects, repair or overhaul, test, adjust, complete the task.

**Outcome 2**

Locate defects in aircraft mechanical ice and rain protection system components.

**Performance criteria**

- 2.1 Defects are located using troubleshooting techniques appropriate to the defect indications.
- 2.2 Defects found during troubleshooting are reported and documented.

**Outcome 3**

Repair or overhaul aircraft mechanical ice and rain protection system components.

**Performance criteria**

- 3.1 Component is disassembled.
- Range may include but is not limited to – clean, label, preserve, segregate, store.
- 3.2 Defects found during disassembly are reported and recorded.
- 3.3 Rectification action is determined and documented.
- 3.4 Replacement parts are procured and verified as authentic and serviceable.
- Range identify, inspect.

3.5 Defects are rectified.

Range may include but is not limited to – repair or overhaul, replace, modify, adjust.

3.6 Component is assembled.

3.7 Inspections are obtained.

#### **Outcome 4**

Test and adjust aircraft mechanical ice and rain protection system components.

#### **Performance criteria**

4.1 Component is prepared for testing.

4.2 Component is tested and adjusted.

Range may include but is not limited to – troubleshoot, functionally test, calibrate, adjust, document adjustments and performance.

4.3 Inspections are obtained.

#### **Outcome 5**

Complete the repair or overhaul of aircraft mechanical ice and rain protection system components.

#### **Performance criteria**

5.1 Component is prepared.

Range may include but is not limited to – use, storage, transit, locking, inhibiting, blanking, packing.

5.2 Resources are checked for serviceability and returned to service or storage.

Range may include but is not limited to – tools, equipment, safety equipment, publications.

5.3 Leftover parts and materials are disposed of.

Range may include but is not limited to – serviceable, unserviceable, surplus, waste, scrap, hazardous.

5.4 Documentation is completed.

Range may include but is not limited to – labels, work cards, release notes, logbooks, shelf-life requirement, certification.

5.5 Work area is left in a state that enables the next task to begin.

<b>Planned review date</b>	31 December 2025
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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 2013
Revision	2	7 August 1997	31 December 2016
Revision	3	8 May 2001	31 December 2016
Review	4	25 September 2006	31 December 2016
Review	5	18 June 2014	31 December 2022
Review	6	23 July 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 ServicelQ [qualifications@serviceiq.org.nz](mailto:qualifications@serviceiq.org.nz) if you wish to suggest changes to the content of this unit standard.