

<b>Title</b>	<b>Repair aircraft lithium batteries</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	People credited with this unit standard are able to: prepare to repair aircraft lithium batteries; locate defects in aircraft lithium batteries; repair aircraft lithium batteries; test aircraft lithium batteries; and complete the repair task.
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<b>Classification</b>	Aeronautical Engineering > Avionic Electrical Repair
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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 The repair activities referred to in this unit standard are those usually carried out in a specialist bay or workshop on components that have been removed from the aircraft.
- 4 The scope of the system that this unit standard relates to is described in ATA iSpec 2200, chapter 24.

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### Outcomes and performance criteria

#### Outcome 1

Prepare to repair aircraft lithium batteries.

#### Performance criteria

- 1.1 Task is determined by reviewing maintenance documentation and enterprise procedures.  
 Range confirm fault, repair, modify.

- 1.2 Work area is prepared, and resources are obtained and checked for serviceability or status.
- Range may include but is not limited to – publications, materials, tools, equipment, safety equipment, environmental conditions established.
- 1.3 Battery identity is matched with documentation.
- 1.4 Battery is prepared for repair.
- Range clean, inspect, assess economics of carrying out repair.
- 1.5 Next task is determined and documented.
- Range locate defects, repair, test, adjust, complete the task.

## **Outcome 2**

Locate defects in aircraft lithium batteries.

### **Performance criteria**

- 2.1 Defects are located using troubleshooting techniques and inspection procedures appropriate to the defect indications.
- 2.2 Any defects are reported and documented.

## **Outcome 3**

Repair aircraft lithium batteries.

### **Performance criteria**

- 3.1 Battery is disassembled.
- Range clean, label, preserve, segregate, store.
- 3.2 Rectification action is determined and documented.
- 3.3 Parts are procured and verified as authentic and serviceable.
- Range identify, inspect.
- 3.4 Defects are rectified.
- Range repair, replace, modify, adjust.
- 3.5 Battery is assembled.

3.6 Inspections are obtained.

Range independent, duplicate, progressive.

#### **Outcome 4**

Test aircraft lithium batteries.

#### **Performance criteria**

4.1 Battery is prepared for testing.

4.2 Battery is tested and adjusted.

Range troubleshoot, functionally test, calibrate, adjust, document adjustments and performance.

4.3 Inspections are obtained.

Range independent, duplicate, progressive.

#### **Outcome 5**

Complete the repair task.

#### **Performance criteria**

5.1 Battery is prepared.

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

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, certification.

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

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<b>Planned review date</b>	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	23 November 2017	31 December 2021
Review	2	26 March 2020	N/A
Rollover and Revision	3	27 June 2024	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>.

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**Comments on this unit standard**

Please contact Ringa Hora Services Workforce Development Council [qualifications@ringahora.nz](mailto:qualifications@ringahora.nz) if you wish to suggest changes to the content of this unit standard.