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| Title | Repair or overhaul aircraft landing gear system components | | |
| Level | 4 | Credits | 15 |

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| Purpose | People credited with this unit standard are able to: prepare to repair or overhaul aircraft landing gear system components; locate defects in aircraft landing gear system components; repair or overhaul aircraft landing gear system components; test and adjust aircraft landing gear system components; and complete the repair or overhaul of aircraft landing gear system components. |
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| Classification | Aeronautical Engineering > Aircraft Mechanical Repair and Overhaul |
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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.
- 3 Repair or overhaul activities are those usually carried out in a specialist bay or workshop.
- 4 Components may include oleos or shock struts, actuators, locking mechanisms, axles, steering system components.
- 5 In the context of this unit standard landing gear system components exclude wheels, tyres, and brakes.
- 6 The scope of the system that this standard relates to is described in ATA iSpec 2200, chapter 32.

Outcomes and performance criteria

Outcome 1

Prepare to repair or overhaul aircraft landing gear 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 landing gear 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 landing gear 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.
- 3.3 Rectification action is determined and documented.
- 3.4 Spare 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 and/or overhaul, replace, modify, adjust.

3.6 Component is assembled.

3.7 Inspections are obtained.

Outcome 4

Test and adjust aircraft landing gear 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 landing gear 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.

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| Planned review date | 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 2016 |
| 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 |

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| 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.