

Title	Maintain helicopter drive trains		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to: prepare to maintain helicopter drive trains; locate defects in helicopter drive trains; restore airworthiness of helicopter drive trains; and complete finishing activities related to maintaining helicopter drive trains.
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Classification	Aeronautical Engineering > Helicopter Maintenance
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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 Helicopter drive trains may include transmissions, gearboxes, freewheel units, drive shafts, cooling fans, blowers.
- 4 Maintenance activities are those usually carried out on the helicopter.
- 5 The scope of the system that this standard relates to is described in ATA iSpec 2200, chapters 63 and 65.

Outcomes and performance criteria

Outcome 1

Prepare to maintain helicopter drive trains.

Performance criteria

- 1.1 Task is determined by reviewing maintenance documentation.

- 1.2 Work area is prepared, and resources obtained and checked for serviceability or status.
- Range may include but is not limited to – publications, tools, equipment, safety equipment, materials.
- 1.3 Helicopter registration and drive train to be maintained are matched with documentation.
- 1.4 Helicopter and drive train are prepared for the application of power and for drive train operation.
- Range may include but is not limited to – cockpit controls match component positions, clearances, isolation tags, warning signs.
- 1.5 Ground and/or support equipment is positioned ready for drive train operation.

Outcome 2

Locate defects in helicopter drive trains.

Performance criteria

- 2.1 Serviceability is determined.
- Range inspect, assess, test.
- 2.2 Defects are reported and documented.

Outcome 3

Restore airworthiness of helicopter drive trains.

Performance criteria

- 3.1 Methods of rectifying defects are determined.
- 3.2 Replacement parts are procured and verified as authentic and serviceable.
- Range identify, inspect.
- 3.3 Defects are rectified.
- Range may include but is not limited to – repair, replace, modify, adjust, calibrate, lubricate.
- 3.4 System is tested to verify serviceability.
- 3.5 Inspections are obtained.
- Range independent, duplicate, progressive.

Outcome 4

Complete finishing activities related to maintaining helicopter drive trains.

Performance criteria

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

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

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

Range tools, equipment, safety equipment.

4.3 Leftover items, parts, and materials are disposed of.

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

4.4 Documentation is completed.

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	20 June 2006	31 December 2016
Review	5	17 July 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.