Title	Repair or overhaul helicopter engine cooling fan assemblies		
Level	4	Credits	4

Purpose	People credited with this unit standard are able to: prepare to repair or overhaul helicopter cooling fan assemblies; locate defects in cooling fan assemblies; repair or overhaul cooling fan assemblies; test and adjust cooling fan assemblies; and complete finishing activities related to the repair or overhaul task of cooling fan assemblies.
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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.

Outcomes and performance criteria

Outcome 1

Prepare to repair or overhaul helicopter cooling fan assemblies.

Performance criteria

- 1.1 Task is determined by reviewing documentation.
 - Range confirm fault, repair, overhaul, modify.
- 1.2 Cooling fan assembly identification is confirmed with documentation.

NZQA unit standard 4054 version 7
Page 2 of 4

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 Cooling fan assembly is prepared for repair or overhaul.

Range clean, inspect, assess economics of carrying out repair or

overhaul.

1.5 Next task is determined and documented.

Range locate defects, repair or overhaul, test, adjust, complete the task.

Outcome 2

Locate defects in cooling fan assemblies.

Performance criteria

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

Outcome 3

Repair or overhaul cooling fan assemblies.

Performance criteria

3.1 Cooling fan assembly is disassembled.

Range clean, label, preserve, segregate.

- 3.2 Defects found during disassembly are reported and recorded.
- 3.3 Rectification action is determined and documented.

Range repair, overhaul, replace, modify, adjust, scrap; confirmation of

action to be taken obtained from supervisor, action to be taken

recorded.

3.4 Replacement parts are procured and verified as authentic and serviceable.

Range identify, inspect.

3.5 Defects are rectified.

Range repair, replace, modify, adjust.

NZQA unit standard 4054 version 7 Page 3 of 4

- 3.6 Cooling fan assembly is assembled.
- 3.7 Inspections are obtained.

Range independent, duplicate, progressive.

Outcome 4

Test and adjust cooling fan assemblies.

Performance criteria

- 4.1 Cooling fan assembly is prepared for testing.
- 4.2 Cooling fan assembly is tested and adjusted.

Range troubleshoot, functionally test, adjust, balance, document

adjustments and performance.

4.3 Inspections are obtained.

> Range independent, duplicate, progressive.

Outcome 5

Complete finishing activities related to the repair or overhaul task of cooling fan assemblies.

Performance criteria

5.1 Cooling fan assembly is prepared for use, storage or transit.

> Range locking, inhibiting, blanking, packing.

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

> 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.

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

> Range tools, equipment, safety equipment.

5.4 Leftover parts and materials are disposed of.

> may include but is not limited to – serviceable, unserviceable, Range

> > surplus, waste, scrap, hazardous.

5.5 Documentation is completed.

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	20 June 2006	31 December 2016	
Review	5	18 June 2014	31 December 2021	
Review	6	26 March 2020	N/A	
Rollover and Revision	7	27 June 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.