Title	Repair helicopter metal rotor blades		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to: prepare to repair helicopter metal rotor blades; locate defects in metal rotor blades; repair metal rotor blades; test and adjust metal rotor blades; and complete finishing activities related to the repair task of metal rotor blades.
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Classification	Aeronautical Engineering > Helicopter 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 activities are those usually carried out in a specialist bay or workshop.

Outcomes and performance criteria

Outcome 1

Prepare to repair helicopter metal rotor blades.

Performance criteria

1.1 Task is determined by reviewing documentation.

Range confirm fault, repair, modify.

1.2 Rotor blade identification is confirmed with documentation.

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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 Rotor blade 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 metal rotor blades.

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 metal rotor blades.

Performance criteria

3.1 Rotor blade 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, 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.

3.6 Rotor blade is assembled.

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3.7 Inspections are obtained.

Range independent, duplicate, progressive.

Outcome 4

Test and adjust metal rotor blades.

Performance criteria

- 4.1 Rotor blade is prepared for testing procedures.
- 4.2 Rotor blade is tested and adjusted.

Range troubleshoot, functionally test, static balance, adjust, document

adjustments and performance.

4.3 Inspections are obtained.

Range independent, duplicate, progressive.

Outcome 5

Complete finishing activities related to the repair task of metal rotor blades.

Performance criteria

5.1 Rotor blade 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.

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

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.