Title	Repair or recondition aircraft autopilot system components		
Level	4	Credits	30

Purpose	People credited with this unit standard are able to: prepare to repair or recondition aircraft autopilot system components; locate defects in aircraft autopilot system components; repair or recondition aircraft autopilot system components; test and adjust aircraft autopilot system components; and complete the repair or reconditioning task.
	locate defects in aircraft autopilot system components; repair or recondition aircraft autopilot system components; test and adjust aircraft autopilot system components; and complete the

Classification	Aeronautical Engineering > Avionic Instrument Repair
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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 The repair or recondition 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 Components may include flight control computers, position transmitters, controllers, control column sensors, servos, accelerometers.

Outcomes and performance criteria

Outcome 1

Prepare to repair or recondition aircraft autopilot system components.

Performance criteria

1.1 Repair or recondition task is determined by reviewing maintenance documentation and enterprise procedures.

Range confirm fault, repair, recondition, modify.

1.2 Work area is prepared, and resources obtained and checked for serviceability or status.

Range publications, materials, tools, equipment, safety equipment,

environmental conditions established.

- 1.3 Component identification is matched with documentation.
- 1.4 Component is prepared for repair or recondition.

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

recondition.

1.5 Next task is determined and documented.

Range locate defects, repair, recondition, test, adjust, complete the task.

Outcome 2

Locate defects in aircraft autopilot system components.

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 or recondition aircraft autopilot system components.

Performance criteria

3.1 Component 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 Component is assembled.

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3.6 Inspections are obtained.

Range independent, duplicate, progressive.

Outcome 4

Test and adjust aircraft autopilot 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.

Range independent, duplicate, progressive.

Outcome 5

Complete the repair or reconditioning task.

Performance criteria

5.1 Component 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 which enables the next task to begin.

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	19 May 2006	31 December 2016
Revision	5	21 September 2007	31 December 2016
Review	6	24 October 2014	31 December 2022
Review	7	23 July 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 <u>qualifications@serviceiq.org.nz</u> if you wish to suggest changes to the content of this unit standard.