



Australian Government

MEA218 Inspect, test and troubleshoot rotary wing autopilot systems and components

Release: 2

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Modification History

Release 2. Equivalent to MEA218 Inspect, test and troubleshoot rotary wing autopilot systems and components with amended prerequisite codes.

Application

This unit of competency requires application of hand skills and the use of system/component knowledge and applicable maintenance publications and test equipment to inspect, test and troubleshoot rotary wing autopilot systems and components, including those incorporating a radio-coupled flight director during scheduled or unscheduled maintenance. Work may be performed individually or as part of a team.

The unit is part of the Avionic Certificate IV (Aircraft Maintenance Stream) training pathway.

The unit is used in workplaces that operate under the airworthiness regulatory systems of the Australian Defence Force (ADF) and the Civil Aviation safety Authority (CASA).

Where a CASA licensing outcome is sought this unit forms part of the CASA requirement for the granting of the chosen maintenance certification licence under Civil Aviation Safety Regulation (CASR) Part 66, in accordance with the licensing provisions in the Companion Volume Implementation Guide.

Pre-requisite Unit

MEA246 Fabricate and/or repair aircraft electrical hardware or parts

MEA293 Remove and install aircraft electronic system components

Competency Field

Aviation maintenance

Unit Sector

Elements and Performance Criteria

Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
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| 1. Inspect rotary wing autopilot systems and | 1.1 Relevant maintenance documentation and modification status, including system defect reports, where relevant, |
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components		are used to identify specific inspection requirements
	1.2	Isolation tags are checked and aircraft configured for safe system inspection and operation in accordance with the applicable maintenance manual
	1.3	Autopilot systems and components are visually or physically checked for external signs of defects in accordance with applicable maintenance manual while observing all relevant work health and safety (WHS) requirements
	1.4	Defects are correctly identified and reported
2. Test/adjust rotary wing autopilot systems and components	2.1	Aircraft and system are prepared in accordance with applicable maintenance manual for the application of power/system operation
	2.2	Autopilot systems are functionally tested in accordance with maintenance manual for evidence of serviceability or malfunction
	2.3	System calibration or adjustments are performed in accordance with maintenance manual, as appropriate
3. Troubleshoot rotary wing autopilot systems	3.1	Available information from maintenance documentation, inspection and test results is used, where necessary, to assist in fault determination
	3.2	Maintenance manual fault diagnosis guides and logic processes are used to ensure efficient and accurate troubleshooting to line replacement level
	3.3	Specialist advice is obtained, where required, to assist with the troubleshooting process
	3.4	Autopilot system faults are located and the causes of the faults are clearly identified and correctly recorded in maintenance documentation, where required, in accordance with standard enterprise procedures
	3.5	Rectification requirements are determined

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Autopilot systems and components include:

- Rotary wing aircraft autopilot systems, including those incorporating a radio-coupled flight director

Procedures and requirements include:

- Industry standard procedures specified by manufacturers, regulatory authorities or the enterprise

Unit Mapping Information

Release 2. Equivalent to MEA218 Inspect, test and troubleshoot rotary wing autopilot systems and components

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=ce216c9c-04d5-4b3b-9bcf-4e81d0950371>