



Australian Government

MEA232 Test and troubleshoot aircraft pulse systems and components

Release: 2

MEA232 Test and troubleshoot aircraft pulse systems and components

Modification History

Release 2. Equivalent to MEA232 Test and troubleshoot aircraft pulse systems and components with amended prerequisite unit name.

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 test and troubleshoot pulse systems and components of fixed and rotary wing aircraft 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 pathways.

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

MEA226	Inspect aircraft electronic systems and components
MEA246	Fabricate and/or repair aircraft electrical hardware or parts

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. Prepare for | 1.1 Relevant maintenance documentation and modification status, including system defect reports, where relevant, |
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troubleshooting		are used to identify an unserviceability
2. Test/adjust pulse systems	2.1	Aircraft and system are prepared in accordance with applicable maintenance manual for the application of power/system operation
	2.2	Pulse system is functionally tested in accordance with maintenance manual for evidence of serviceability or malfunction while observing all relevant work health and safety (WHS) requirements
	2.3	System calibration or adjustments are performed in accordance with maintenance manual, as appropriate
3. Troubleshoot pulse systems	3.1	Available information from maintenance documentation and 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 replaceable level
	3.3	Specialist advice is obtained, where required, to assist with the troubleshooting process
	3.4	Pulse system faults are located and the causes of the faults are clearly identified and correctly recorded in maintenance documentation, where required
	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.

Pulse systems and components include:

- Navigation radar
- Weather radar
- Radio altimeter (RADALT)

Procedures and requirements include:

- Distance measuring equipment (DME)
- Air traffic control (ATC) transponder
- Automatic dependent surveillance-broadcast (ADS-B)
- Doppler
- Airborne collision avoidance system (ACAS)
- Displays, indicators, control boxes, antennae, waveguides, transmitters and receivers, and line replaceable units (LRUs)
- Industry standard procedures specified by manufacturers, regulatory authorities or the enterprise

Unit Mapping Information

Release 2. Equivalent to MEA232 Test and troubleshoot aircraft pulse 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>