Australian Government

MEAAVI0011 Inspect, test and troubleshoot basic aircraft communication and radio navigation systems and components

Release: 1

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Modification History

Release 1. Unit title error amended. Application changed. Elements and Performance Criteria changed. Foundation Skills made explicit. Range of Conditions removed, and relevant information moved to Assessment Requirements. Assessment Requirements clarified. Supersedes and equivalent to MEA214 Inspect, test and troubleshoot aircraft basic communication and radio navigation systems and components.

Application

This unit describes the skills and knowledge required to apply hand skills and use system and component knowledge, maintenance publications and test equipment to inspect, test and troubleshoot basic communication and radio navigation 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 used in workplaces that operate under the airworthiness regulatory systems of the Civil Aviation Safety Authority (CASA) and the Defence Aviation Safety Authority (DASA).

Any other relevant legislation, industry standards and codes of practice within Australia must be applied.

Pre-requisite Unit

MEA206 Remove and install aircraft basic radio communication and navigation system components

MEA246 Fabricate and/or repair aircraft electrical hardware or parts

Competency Field

Aviation maintenance

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.

1. Inspect basic communication and radio navigation systems and components	1.1 Identify specific inspection requirements using maintenance documentation and modification status, including relevant system defect reports
	1.2 Check isolation tags and configure aircraft for safe system inspection and operation in accordance with maintenance manual
	1.3 Visually or physically check communication and radio navigation systems and components for external signs of defects in accordance with maintenance manual while observing all relevant work health and safety (WHS) requirements
	1.4 Identify and report defects in accordance with standard enterprise procedures
2. Test or adjust basic communication and radio navigation systems and components	2.1 Prepare aircraft and system for application of power or system operation in accordance with maintenance manual
	2.2 Perform functional testing of communication and radio navigation systems for evidence of serviceability or malfunction in accordance with maintenance manual
	2.3 Perform required calibration or adjustments to system in accordance with maintenance manual
3. Troubleshoot basic communication and radio navigation systems	3.1 Use available information from maintenance documentation, inspection and test results to assist in fault determination of identified issues
	3.2 Troubleshoot issues to line replacement level using maintenance manual fault diagnosis guides and logic processes
	3.3 Obtain required specialist or supervisory advice to assist with the troubleshooting process
	3.4 Locate communication and radio navigation system faults and identify and record causes of faults in required maintenance documentation in accordance with standard enterprise procedures

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria:

- Reading skills to interpret maintenance manuals, inspection procedures and specifications (allowable limits).
- Writing skills to record and report on defects and faults and their causes.

- Numeracy skills to interpret and communicate technical information and take and interpret system measurements.

Other foundation skills essential to performance are explicit in the performance criteria of this unit.

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEA214 Inspect, test and troubleshoot aircraft basic communication and radio navigation 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