



Australian Government

Assessment Requirements for MEAAVI0052 Repair and overhaul aircraft pulse system components

Release: 1

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Modification History

Release 1. 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 is equivalent to MEA282 Repair or overhaul aircraft pulse system components.

Performance Evidence

There must be evidence the candidate has completed all the tasks outlined in the elements and performance criteria of this unit, and demonstrated the ability to:

- repair or overhaul aircraft pulse system components during scheduled or unscheduled maintenance under routine supervision on four components cumulatively from two or more of the following groups:
 - weather radar, search radar and weapons system radar
 - distance measuring equipment (DME) and tactical aerial navigation (TACAN)
 - doppler navigation
 - air traffic transponder
 - radio altimeter
 - airborne collision avoidance system (ACAS).
- correctly handle components, including anti-static equipment
- perform functional testing or run through test cycles by applying logic processes, using test equipment and appropriate wiring diagrams and manuals to isolate component faults and assess post-repair or overhaul serviceability
- apply testing and alignment procedures, cleanliness requirements and safety precautions at all times and as relevant to the pulse system components being repaired or overhauled.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- component and system operation
- the basic function and operation of components of pulse systems to enable testing for fault isolation or confirmation, to determine repair or overhaul requirements and serviceability status post-repair or overhaul
- basic principles and functions relating to pulse system components and associated with:
 - advanced analogue fundamentals
 - digital fundamentals
 - alternating current and direct current (AC and DC) electrical systems
 - electromagnetic radiation

- antenna and transmission line (including waveguide) characteristics
- pulsed radar system operation
- work health and safety (WHS) requirements for aircraft pulse system components
- maintenance documentation for aircraft pulse system components
- soldering techniques and their application to pulse system components.

Assessment Conditions

The following conditions of assessment represent the requirements of the regulators (DASA and CASA) and maintenance stakeholders and must be rigorously observed.

Skills must have been demonstrated under routine supervision in the workplace or in a simulated environment that reflects workplace conditions and contingencies encountered in repairing or overhauling aircraft pulse system components. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - workplace procedures, manufacturing specifications, codes, standards, manuals, and reference materials relevant to repairing or overhauling aircraft pulse system components
 - tools and equipment specified in maintenance documentation
 - general and special-purpose tools and test equipment.

Evidence of tasks demonstrating competency must be recorded in a log of industrial experience and achievement.

Assessment should be made across a sufficient number of components to establish the ability to apply attained skills and knowledge across the full range of pulse system components with the aid of applicable maintenance manuals and data.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

Companion Volume implementation guides are found in VETNet -

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