



Australian Government

**Assessment Requirements for
MEAAVI0037 Test, align and troubleshoot
aircraft synchro and servo system
components**

Release: 1

Assessment Requirements for MEAAVI0037 Test, align and troubleshoot aircraft synchro and servo system components

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 MEA252 Test, align and troubleshoot aircraft synchro and servo 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:

- perform testing, alignment and troubleshooting on aircraft synchro and servo systems and components applicable to the enterprise, including at least one of the following:
 - air data computers
 - auto pilot servos
 - remote position indicators
- recognise the serviceability state and repair requirements for each of the following:
 - synchro/servo system error detection devices
 - direct current (DC) and alternating current (AC) synchronous components
 - gyroscopic instruments (mechanical, electro-mechanical, vacuum/pressure types)
 - flight control servo devices
- perform functional testing by applying logic processes to isolate synchro and servo system component faults
- apply testing procedures, cleanliness requirements and safety precautions at all times, and as relevant to the system components being maintained.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- component and system operation
- the basic function and operation of synchro and servo system components to enable testing for fault isolation or confirmation and to determine repair or overhaul requirements and serviceability status post-repair or overhaul
- basic principles and functions relating to synchro and servo system components and associated with:
 - advanced analogue fundamentals
 - synchronous systems
 - gyroscopes
- work health and safety (WHS) practices for aircraft synchro and servo systems

- maintenance manuals for aircraft synchro and servo systems.

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 testing, aligning and troubleshooting aircraft synchro and servo 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 testing, aligning and troubleshooting aircraft synchro and servo system components
 - tools and equipment specified in maintenance documentation
 - general and special-purpose tools and test equipment required for testing, aligning and troubleshooting aircraft synchro and servo system components.

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

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>