



**Australian Government**

**Assessment Requirements for  
MEAA VI0053 Repair and overhaul aircraft  
display, control and distribution system  
components**

**Release: 1**

# Assessment Requirements for MEAAVI0053 Repair and overhaul aircraft display, control and distribution 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 MEA283 Repair or overhaul aircraft display, control and distribution 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 and overhaul aircraft display, control and distribution system components during scheduled or unscheduled maintenance under routine supervision on components that are applicable to the enterprise, from at least two of the following systems:
  - display systems, including electronic flight instrument system (EFIS), engine indicating and crew alerting system (EICAS) and electronic centralized aircraft monitor (ECAM)
  - automatic flight control system (AFCS)
  - autopilots (digital and analogue)
  - flight director (digital and analogue)
  - flight management.
- recognise the serviceability state and repair or overhaul requirements for components from the following:
  - digital electronic instruments/display systems
  - digital flight controllers and directors
  - digital AFCS/autopilot systems
  - flight management systems
  - analogue components of control and distribution systems
- perform functional testing by applying logic processes, using test equipment and appropriate wiring diagrams and manuals to isolate component faults and assess post-repair/overhaul serviceability for the components being repaired and overhauled
- apply testing procedures, cleanliness requirements and safety precautions at all times and as relevant to the systems or components being maintained.

## Knowledge Evidence

There must be evidence the candidate has knowledge of:

- component and system operation

- the basic function and operation of components as follows to enable testing for fault isolation or confirmation, to determine repair or overhaul requirements, and serviceability status post-repair or overhaul:
  - digital electronic instruments/display system components
  - digital flight controllers and directors
  - digital AFCS/autopilot system components
  - flight management system components
  - analogue components of control and distribution systems
- basic principles/functions, relating to the above systems/components and associated with:
  - advanced analogue fundamentals, including video display generation techniques
  - digital fundamentals
- alternating current (AC) and direct current (DC) electrical systems
- work health and safety (WHS) requirements for display, control and distribution systems and components
- maintenance documentation for display, control and distribution systems and 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 display, control and distribution 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 display, control and distribution 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 display, control and distribution 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>