



**Australian Government**

# **MEA260 Use electrical test equipment**

**Release: 2**

# MEA260 Use electrical test equipment

## Modification History

Release 2 - Phase angle measurement (in Range of Conditions) now dependent on enterprise need

Release 1 - New unit of competency

## Application

This unit of competency requires application of skills in the use of electrical test equipment to measure voltage, current, frequency and phase angle, and to test continuity, resistance, insulation and bonding.

Applications include aircraft and components both in the hangar and workshop during scheduled or unscheduled maintenance. Work may be performed individually or as part of a team.

The unit is part of all Avionic Certificate IV training pathways. It is also part of the Mechanical Aircraft Maintenance Engineer licensing pathway.

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

MEA101	Interpret work health and safety practices in aviation maintenance
MEA103	Plan and organise aviation maintenance work activity
MEA105	Apply quality standards applicable to aviation maintenance processes
MEA107	Interpret and use aviation maintenance industry manuals and specifications
MEA108	Complete aviation maintenance industry documentation
MEA109	Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance

## 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.
1. Select required test equipment	1.1 System/component test requirements are identified
	1.2 Appropriate test equipment is selected
2. Prepare test equipment for use	2.1 Test equipment is checked for serviceability and applicable leads are fitted where required
	2.2 Applicable function and range of measurement is selected as required
3. Test system or component	3.1 Test points and polarity are determined
	3.2 Required parameters are measured with the test equipment while observing all relevant work health and

safety (WHS) requirements

## 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.

### System/component test requirements include:

- Measurement of or testing:
  - volts, amps and power
  - frequency
  - phase angle (where applicable to the enterprise)
  - continuity, resistance and insulation
  - bonding

### Procedures and requirements include:

- Industry standard procedures specified by manufacturers, regulatory authorities or the enterprise

## Unit Mapping Information

Release 2 - phase angle measurement (in Range of Conditions and Assessment Requirements) now dependent on enterprise need. No change in outcome

Release 1 – equivalent to MEA260B Use electrical test equipment

## Links

Companion Volume implementation guides are found in VETNet -

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