



Australian Government

**Assessment Requirements for MEA296 Use
electrical test equipment in aviation
maintenance activities**

Release: 1

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Modification History

Release 2. Equivalent to MEA260 Use electrical test equipment. Code changes due to changed titles.

Performance Evidence

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

- under routine supervision, select required items of test equipment and use them to perform the measurements and test each of the following:
 - volts, amps and power
 - frequency
 - phase angle, which may be omitted if not relevant to the organisation
 - continuity, resistance and insulation
 - bonding.

In the course of the above work, the candidate must:

- apply required work health and safety (WHS) practices
- use selectors and scale adjustment of each item of test equipment to ensure accurate measurement of applicable parameter
- connect test equipment to components or circuits
- determine polarity and applicable connection points for measurement or testing.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- industry, regulatory and organisational requirements, procedures and methods relating to the use of electrical test equipment in the aviation maintenance activities described in the performance evidence, including:
 - job specifications
 - procedures for checking serviceability of test equipment
 - procedures for fitting leads
 - procedures for selecting function and range of measurement
 - WHS requirements and practices
 - industry standard procedures specified by manufacturers, regulatory authorities, and the organisation for using prepared test equipment to measure required parameters
- range of electrical test equipment used to measure or test:

- volts, amps and power
- frequency
- phase angle
- continuity, resistance and insulation
- bonding
- test equipment construction and calibration, and testing for serviceability
- methods used to identify applicable polarity and connection to components and circuits.

Assessment Conditions

The following conditions of assessment represent the requirements of the regulators (Australian Defence Force [ADF] and Civil Aviation Safety Authority [CASA]) and maintenance stakeholders, and must be rigorously observed.

Competency must be assessed in the work environment, or simulated work environment, using electrical test equipment specified in maintenance documentation.

The candidate must have access to electrical test equipment required to demonstrate the performance evidence above and selected on the basis of general trade knowledge, where specific test equipment is not specified.

Candidate capability must be established via the records in the Log of Industrial Experience and Achievement or, where appropriate, an equivalent Industry Evidence Guide (for details refer to the Companion Volume Assessment Guidelines).

Assessors of this unit must satisfy the assessor requirements in applicable vocational education and training legislation, frameworks and/or standards.

Where the unit is to be used for CASA licensing purposes the assessor must also meet the criteria specified in the Civil Aviation Safety Regulation (CASR) Part 147 Manual of Standards.

Links

Companion Volume implementation guides are found in VETNet -

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