



**Australian Government**

# **MEA240 Use electrical test equipment to perform basic electrical tests**

**Release: 1**

# MEA240 Use electrical test equipment to perform basic electrical tests

## Modification History

Release 1 - New unit of competency

## Application

This unit of competency requires application of skills in the use of electrical test equipment under qualified person guidance to measure voltage and current, and to test continuity, insulation and bonding on 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 the Avionic Certificate II training 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).

## 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. Prepare test equipment to perform basic electrical tests                                | 1.1 Appropriate electrical test equipment is selected and confirmed with a qualified person   |
|  | 1.2 Test equipment is checked for serviceability and applicable leads are fitted, where required                                    |
|  | 1.3 Applicable function and range of measurement is set and confirmed with a qualified person                                       |
| 2. Test component in accordance with enterprise procedures using electrical test equipment | 2.1 Test points and polarity are determined   |
|  | 2.2 Required parameters are measured with the test equipment while observing all relevant work health and safety (WHS) requirements |
|  | 2.3 Results are recorded in accordance with enterprise procedures, under qualified person guidance                                  |

### 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.

**Required parameters include measurement/testing of:**

- Volts and amps
- Continuity, resistance and insulation
- Bonding

## **Unit Mapping Information**

Release 1 – equivalent to MEA240B Use electrical test equipment to perform basic electrical tests

## **Links**

Companion Volume implementation guides are found in VETNet -  
<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=ce216c9c-04d5-4b3b-9bcf-4e81d0950371>