



Australian Government

**MEA295 Use electrical test equipment to
perform basic electrical tests on aircraft
and components**

Release: 1

MEA295 Use electrical test equipment to perform basic electrical tests on aircraft and components

Modification History

Release 1. Equivalent to MEA240 Use electrical test equipment to perform basic electrical tests. Code changes due to changed titles.

Application

This unit of competency describes the skills and knowledge required to use electrical test equipment to perform basic electrical tests on aircraft and components. It involves the application of skills in the use of electrical test equipment under qualified person guidance to measure voltage and current, and to test aircraft and component continuity, insulation and bonding during maintenance work. Work may be performed individually or as part of a team.

The unit applies to work undertaken in both the hangar and workshop during scheduled and unscheduled maintenance. It is used in workplaces that operate under the airworthiness regulatory systems of the Australian Defence Force (ADF) and the Civil Aviation Safety Authority (CASA).

This unit forms part of the Civil Aviation Safety Authority (CASA) requirement for maintenance certification licences under Civil Aviation Safety Regulation (CASR) Part 66. Where a CASA licensing outcome is sought, users must refer to the licensing provisions in the MEA Aeroskills Companion Volume Implementation Guide.

Pre-requisite Unit

MEA107	Interpret and use aviation maintenance industry manuals and specifications
MEA154	Apply work health and safety practices in aviation maintenance
MEA155	Plan and organise aviation maintenance work activities
MEA156	Apply quality standards during aviation maintenance activities
MEA157	Complete aviation maintenance industry documentation
MEA158	Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance

Competency Field

Aviation maintenance

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1. Prepare test equipment to perform basic electrical tests

2. Test component in accordance with enterprise procedures using electrical test equipment

3. Finalise electrical test documentation

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1.1 Select appropriate electrical test equipment and confirm with qualified person

1.2 Check test equipment for serviceability and fit applicable leads where required

1.3 Set applicable function and range of measurement and confirm with a qualified person

2.1 Determine test points and polarity

2.2 Measure required parameters using test equipment and observing work health and safety (WHS) requirements

3.1 Record test results according to organisational procedures, under qualified person guidance

3.2 Complete test documentation

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Release 1. Equivalent to MEA240 Use electrical test equipment to perform basic electrical tests.

Links

Companion Volume implementation guides are found in VETNet -

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