



Australian Government

MEA296 Use electrical test equipment in aviation maintenance activities

Release: 1

MEA296 Use electrical test equipment in aviation maintenance activities

Modification History

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

Application

This unit of competency describes the skills and knowledge required to select electrical test equipment, prepare the equipment for use, and safely apply the equipment in a range of measurement and testing tasks. It involves using electrical test equipment on aircraft and their components to measure voltage, current, frequency and phase angle; and to test continuity, resistance, insulation and bonding. Work may be performed individually or as part of a team.

The unit applies to work undertaken in both the hangar and the workshop that requires the use of electrical test equipment during scheduled and unscheduled maintenance in all areas of aviation maintenance. 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).

This unit forms part of the 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. Select required test equipment

2. Prepare test equipment for use

3. Test system or component

PERFORMANCE CRITERIA

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

1.1 Review job specifications to identify system and component test requirements

1.2 Select test equipment required for aviation maintenance activity

2.1 Check test equipment for serviceability and fit applicable leads where required according to organisational procedures and maintenance manuals

2.2 Select applicable function and range of measurement according to organisational procedures

3.1 Determine test points and polarity of system or component

3.2 Use prepared test equipment to measure required parameters in line with work health and safety (WHS) requirements and industry standard procedures specified by manufacturers, regulatory authorities, and organisation

Foundation Skills

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

Unit Mapping Information

Release 2. Equivalent to MEA260 Use electrical test equipment.

Links

Companion Volume implementation guides are found in VETNet -

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