



Australian Government

MEA261 Use electronic test equipment

Release: 2

MEA261 Use electronic test equipment

Modification History

Release 2. Equivalent to MEA261 Use electronic test equipment with amended prerequisite codes.

Application

This unit of competency requires application of skills in the use of electronic test equipment to measure electronic circuit parameters and test performance.

Applications include aircraft components both in the hangar and workshop undergoing scheduled or unscheduled maintenance involving individual and team activities.

The unit is part of Avionic Certificate IV training pathways.

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

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

Unit Sector

Elements and Performance Criteria

Elements describe the Performance criteria describe the performance needed to

essential outcomes.

demonstrate achievement of the element.

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|-----------------------------------|---|
| 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.

Electronic test equipment includes:

- Electronic multimeters
- Phase-angle voltmeters (where applicable to the enterprise)
- Oscilloscopes (dual differential, differential, delayed time base, storage)
- Current probes
- Logic and discrete component testers
- Electronic component substitution boxes and miscellaneous test adapters

Procedures and requirements include:

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

Unit Mapping Information

Release 2. Equivalent to MEA261 Use electronic 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>