



Australian Government

**Assessment Requirements for
MEALSU0009 Maintain seat and pod
electrical and electronic systems**

Release: 1

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Modification History

Release 1. Application changed. Elements and Performance Criteria changed. Foundation Skills made explicit. Range of Conditions removed, and relevant information moved to Assessment Requirements. Assessment Requirements clarified. Supersedes and is equivalent to MEA510 Maintain seat and pod electrical and electronic systems.

Performance Evidence

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

- maintain seat and pod electrical systems during scheduled and unscheduled maintenance for one item from each of the following groups:
 - electrical cables and looms
 - selectors and switches
 - motors and actuators
 - relays, control units and modules
- maintain seat and pod electronic systems during scheduled and unscheduled maintenance for one item from each of the following groups:
 - display units
 - tuners/selectors
 - volume controls
 - audio headset receptacles
 - data cables
- while performing the above maintenance:
 - remove and install electrical components that involve either one of the following connection methods:
 - bolt
 - plug connectors
 - recognise defects in and deterioration of electrical cables to aircraft industry standards, including crimped and soldered joints
 - correctly interpret aircraft wire markings, terminal block identification and plug/socket pin numbering systems
 - inspect electrical looms and harness pre- and post-removal and installation to ensure:
 - minimum bends are maintained
 - cable is not in tension
 - plugs are correctly aligned
 - security of route ensures no chaffing of insulation

- adequate clipping and cable ties have been utilised
- construction complies with aircraft industry standards
- plug connector pin removal and insertion where soldering is not required
- recognise damage and visual defects in electrical components, including actuators, motors and switches
- recognise damage and visual defects in electronic system components, including one or more of display screens, tuners, volume controls, audio headset receptacles and data cables
- apply cleanliness requirements and work health and safety (WHS) precautions at all times and as relevant to the systems being worked on.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- relevant WHS procedures for seat and pod electrical and electronic systems
- how to obtain and use relevant material safety data sheets (MSDSs)
- using applicable items of personal protective equipment (PPE)
- component attachment methods
- connection of hardware and plugs
- electrical wiring used in aircraft and wire marking
- plug/socket pin numbering and terminal block identification
- cable and loom installation requirements, including bonding and screening
- crimping tools and crimp terminals
- procedures for removal and insertion of plug connector pins where soldering is not required
- typical faults that affect seat and pod electrical and electronic systems, including:
 - broken or chafed wires
 - corrosion of plugs and connectors
 - physical damage to components
 - wear
 - evidence of electrical or electronic component overheating
- handling and maintenance precautions relating to electronic displays and electrostatic sensitive devices
- electromagnetic environment
- data cable installation requirements.
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Assessment Conditions

The following conditions of assessment represent the requirements of the regulators (DASA and CASA) and maintenance stakeholders and must be rigorously observed.

Skills must have been demonstrated under routine supervision in the workplace or in a simulated environment that reflects workplace conditions and contingencies encountered in maintaining seat and pod electrical and electronic systems. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
 - workplace procedures, manufacturing specifications, codes, standards, manuals, and reference materials relevant to maintaining seat and pod electrical and electronic systems
 - tools and equipment specified in maintenance manuals
 - general-purpose tools and items of ground support and test equipment found in most routine situations.

Evidence of tasks demonstrating competency must be recorded in a log of industrial experience and achievement. Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

Companion Volume implementation guides are found in VETNet -

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