



Australian Government

**Assessment Requirements for
MEAMEC0043 Maintain light aircraft
pneumatic systems**

Release: 1

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Modification History

Release 1. Application changed. 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 MEA354 Maintain light aircraft pneumatic 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, under routine supervision, the following systems and components:
 - de-icing systems, including de-icer boots on wings and tailplanes
 - filters, valves, pumps, regulators and timers
 - gauges (direct reading)
 - de-icer boots
 - rigid and flexible pipelines, hoses and fittings
- use hand skills, tools and test equipment in the testing, adjustment and troubleshooting of light aircraft pneumatic systems and components, including pneumatic system component removal and installation
- recognise pneumatic system and component defects or external damage, correct installation and security for the de-icing systems, including de-icer boots on wings and tailplanes
- apply relevant procedures, cleanliness requirements and safety precautions at all times and as relevant to the systems being maintained
- perform system functional tests and checks to isolate system faults.
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Knowledge Evidence

There must be evidence the candidate has knowledge of:

- work health and safety (WHS) precautions for light aircraft pneumatic system maintenance and how to obtain personal protective equipment (PPE) and material safety data sheets (MSDSs)
- standard trade practices relating to tool and test equipment usage and installation or securing of system components
- types of light aircraft pneumatic system and components thereof:
 - vacuum
 - positive pressure
 - high pressure

- pneumatic system layout, operation and characteristics and system component operation and construction, including electrical and instrument system interfaces
- how to configure the aircraft for inspection, testing and troubleshooting of pneumatic systems and components
- pneumatic system maintenance requirements and troubleshooting
- component attachment methods
- connection hardware and couplings
- electrical circuit isolation and plug removal and installation
- light aircraft pneumatic system maintenance manuals
- regulatory requirements and standard procedures relevant to light aircraft pneumatic system maintenance.

Assessment Conditions

The following conditions of assessment represent the requirements of the regulators Defence Aviation Safety Authority (DASA) and Civil Aviation Safety Authority (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 light aircraft pneumatic 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 light aircraft pneumatic systems
 - tools and equipment specified in maintenance documentation
 - general-purpose tools 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.education.gov.au/Pages/TrainingDocs.aspx?q=ce216c9c-04d5-4b3b-9bcf-4e81d0950371>