



Australian Government

Assessment Requirements for MEAMEC0061 Repair and overhaul aircraft pneumatic system components

Release: 1

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Modification History

Release 1. Unit code and title changed. 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 MEA381 Repair and/or overhaul aircraft pneumatic system components.

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:

- repair or overhaul at least one aircraft pneumatic system component from each of the following groups:
 - valves, pumps, motors, expansion turbines, actuators, regulators, temperature sensors, mechanical pressurisation controllers, temperature controllers and thrust reversers
 - heat exchangers and pressure vessels
 - rigid and flexible pipelines, hoses, fittings and ducting
- during the above work, or separately, demonstrate the following repair processes:
 - finish or re-finish metal surfaces through processes
 - remove corrosion within maintenance manual limits
 - replace seals and backing rings
 - replace bearings
 - apply surface treatments
 - restore paint finishes.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- how to obtain relevant material safety data sheets (MSDSs)
- identification and use of items of personal protective equipment (PPE) for repairing or overhauling aircraft pneumatic system components
- work health and safety (WHS) procedures for repairing or overhauling aircraft pneumatic system components
- fault diagnosis techniques for pneumatic system components
- pneumatic system and component operation
- repair and overhaul procedures and processes for pneumatic system components
- the use of pneumatic test rigs
- maintenance documentation and aircraft or component manuals for pneumatic, pressurisation and air cycle air conditioning system components.

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 repairing and overhauling aircraft pneumatic system components. 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 repairing and overhauling aircraft pneumatic system components
 - pneumatic system components, 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.gov.au/Pages/TrainingDocs.aspx?q=ce216c9c-04d5-4b3b-9bcf-4e81d0950371>