

Assessment Requirements for MEA303 Remove and install aircraft pneumatic system components

Release: 2

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Modification History

Release 2. Equivalent to MEA303 Remove and install aircraft pneumatic system components with amended prerequisite codes.

Performance Evidence

Evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria under the specified conditions of assessment, and must include:

- applying relevant WHS practices, including the use of MSDS and PPE
- using relevant maintenance documentation and aircraft manuals to:
 - locate and correctly remove and install components in pneumatic systems, including fire-extinguishing systems
 - locate and correctly remove and install components in air cycle air conditioning systems
 - locate and correctly remove and install components in pressurisation systems
 - correctly remove and install rigid and flexible pipelines
 - · correctly remove and install ducting
- observing regulations governing the handling and custody of fire-extinguishers containing ODS or SGG extinguishing agents (e.g. BCF).

It is essential that system cleanliness requirements and safety precautions applicable to the system being maintained are fully observed, understood and complied with.

Evidence of transferability of skills and knowledge related to removal and installation is essential. This may be demonstrated through application across a number of aircraft systems or aircraft types, but must cover a sufficient range of tasks to demonstrate familiarity with attachment methods, connection hardware and couplings peculiar to each type of system, and of safe handling of heavy components.

Knowledge Evidence

Evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- component attachment methods
- connection hardware and couplings
- standard trade practices relating to tool usage and installation/securing of aircraft hardware
- how to locate and correctly remove and install components of:
 - pneumatic systems

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- air cycle air conditioning system components
- pressurisation system components
- fire-extinguishers, including the effect of ODS or SGG extinguishing agents and regulations covering special precautions and handling requirements for BCF fire-extinguishers
- electrical circuit isolation and plug removal and installation
- WHS procedures relating to pneumatic, air conditioning and pressurisation systems
- how to obtain MSDS
- the selection and use of items of PPE
- relevant maintenance manuals
- relevant regulatory requirements and standard procedures, including those relating to the handling and control of halon fire-extinguishers.

Assessment Conditions

- Competency should be assessed in the work environment or simulated work environment using tools and equipment specified in maintenance manuals. It is also expected that general-purpose tools, test and ground support equipment found in most routine situations would be used where appropriate.
- An understanding of system operation as it relates to the work must be demonstrated before undertaking any action. The work plan should take account of applicable safety and quality requirements in accordance with the industry and regulatory standards.
- The following conditions of assessment represent the requirements of the Regulators (ADF and CASA) and maintenance stakeholders and must be rigorously observed.
- A person cannot be assessed as competent until it can be demonstrated to the satisfaction of the workplace assessor that the relevant elements and performance criteria of the unit of competency are being achieved under routine supervision on one (1) item from each from the following groups:
 - filters, valves, pumps, motors, actuators and regulators
 - gauges (direct reading), temperature sensors, pressurisation controllers and temperature controllers
 - heat exchangers, pressure vessels, condensers, compressors, expansion turbines and humidifiers
 - rigid and flexible pipelines, hoses and fittings
 - ducting
 - fire-extinguishers, including those containing ODS or SGG extinguishing agents (e.g. BCF) (may be omitted where not applicable to enterprise).
- This shall be established via the records in the Log of Industrial Experience and Achievement or, where appropriate, an equivalent Industry Evidence Guide (for details refer to the Companion Volume Assessment Guidelines).
- Assessors must satisfy the requirements of the National Vocational Education and Training Regulator (Australian Skills Quality Authority, or its successors).
- Where the unit is to be used for CASA licensing purposes the Assessor must also meet the criteria specified in the CASR Part 147 Manual of Standards.

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Links

Companion Volume implementation guides are found in VETNet https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=ce216c9c-04d5-4b3b-9bcf-4e81d0950371

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