



Australian Government

MEA329 Maintain aircraft basic hydraulic and pneumatic components or parts

Release: 2

ME A329 Maintain aircraft basic hydraulic and pneumatic components or parts

Modification History

Release 2. Equivalent to ME A329 Maintain aircraft basic hydraulic and pneumatic components or parts with amended prerequisite codes.

Application

This unit of competency requires application of hand skills and use of maintenance documentation to maintain, repair and modify aircraft basic hydraulic and pneumatic components during scheduled or unscheduled maintenance under the guidance of a qualified person. Work under the guidance of a qualified person may be performed individually or as part of a team.

Applications include fixed and rotary wing aircraft components either attached to the aircraft or in a workshop.

The unit is part of a Mechanical Certificate II training pathway.

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

ME A107	Interpret and use aviation maintenance industry manuals and specifications
ME A154	Apply work health and safety practices in aviation maintenance
ME A155	Plan and organise aviation maintenance work activities
ME A156	Apply quality standards during aviation maintenance activities
ME A157	Complete aviation maintenance industry documentation
ME A158	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 essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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| 1. Prepare to dismantle, inspect, maintain and assemble basic hydraulic and pneumatic components or parts | 1.1 Components are removed and/or disassembled in accordance with enterprise procedures, relevant maintenance documentation and qualified person guidance |
| | 1.2 Maintenance and/or repair requirements as defined by the qualified person, enterprise procedures and the relevant maintenance documentation are understood |
| | 1.3 Tagging and repair instructions are accurately specified in accordance with enterprise procedures and qualified person directions for parts requiring specialist repair |
| | 1.4 Appropriate materials, tools, equipment and assembly or fabrication jigs, where applicable, are selected and prepared for the particular maintenance and repair requirements in accordance with enterprise procedures and relevant maintenance documentation |
| 2. Dismantle, inspect, maintain and assemble basic hydraulic and pneumatic components or parts | 2.1 Routine maintenance, repair or modification procedures are carried out, as approved by relevant manufacturers' bulletins or procedures, in accordance with required enterprise procedures and specifications while observing all relevant work health and safety (WHS) requirements, including the use of material safety data sheets (MSDS) and items of personal protective equipment (PPE) |
| | 2.2 Component parts are assembled within specified tolerances and in accordance with enterprise procedures and the appropriate maintenance documents |
| | 2.3 Where applicable and as required by the qualified person, assistance is provided in the final adjustment and testing of components to confirm serviceability |
| 3. Complete maintenance and repair activities | 3.1 Required documentation is completed and processed in accordance with standard enterprise procedures |
| | 3.2 Maintained/repaired or modified components are tagged, sealed and packaged within specified |

procedures

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.

Components to be maintained and/or repaired/modified include:

- Hoses
- Pipes
- Simple check or shutoff valves
- Basic hydraulic and pneumatic actuators and valves

Routine work:

- Is carried out using basic operational knowledge and a defined range of skills ('routine' work is that which follows a customary or regular course of procedure)

Work outcomes:

- Are achieved by applying known solutions chosen from a limited range of pre-determined options consistent with enterprise procedures. This includes accepting responsibility for own work in terms of quality of outcomes using pre-determined specifications of quality

Scope of work:

- Note that the scope of any repair or modification and the procedure to be followed will be provided by the qualified person, and be within the scope of the skills and knowledge included in the unit of competency MEA158 Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance

Maintain includes:

- Cleaning, inspection for wear or damage and consequent replacement of parts, and routine adjustment and lubrication, where applicable, in accordance with enterprise procedures

Procedures and requirements include:

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

Unit Mapping Information

Release 2. Equivalent to MEA329 Maintain aircraft basic hydraulic and pneumatic components or parts.

Links

Companion Volume implementation guides are found in VETNet -

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