



Australian Government

MEA330 Maintain aircraft non-primary structural removable components or parts and internal fittings

Release: 2

MEA330 Maintain aircraft non-primary structural removable components or parts and internal fittings

Modification History

Release 2. Equivalent to MEA330 Maintain aircraft non-primary structural removable components or parts and internal fittings with amended prerequisite codes.

Application

This unit of competency requires application of hand skills and use of maintenance documentation to dismantle, inspect, maintain and assemble aircraft non-primary structural removable components and interior fittings/emergency equipment 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

MEA107	Interpret and use aviation maintenance industry manuals and specifications
MEA154	Apply work health and safety practices in aviation maintenance
MEA155	Plan and organise aviation maintenance work activities
MEA156	Apply quality standards during aviation maintenance activities
MEA157	Complete aviation maintenance industry documentation
MEA158	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.
1. Prepare to dismantle, inspect, maintain and assemble non-primary structural removable components or parts and internal fittings	1.1 Components are removed and/or disassembled in accordance with enterprise procedures, relevant maintenance documentation and qualified person guidance 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)
	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 non-primary structural removable components or parts and internal fittings	2.1 Routine maintenance, repair or modification processes are carried out as approved by relevant manufacturers' bulletins or procedures, in accordance with required enterprise procedures and specifications while observing all relevant WHS requirements, including the use of MSDS and items of PPE
	2.2 Component parts are assembled within specified tolerances 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 conduct of final load or functional tests
3. Complete maintenance/ modification activities	3.1 Required documentation is completed and processed in accordance with standard enterprise procedures

- 3.2 Where applicable, 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.

Routine maintenance, repair or modification processes are performed on:

- Non-structural removable components of fuselages, fairings, nacelles, empennage, wings and thrust reversers. For non-pressurised aircraft – entry, cargo, access doors and associated seals, windows and transparent panels
- Trim panels, linings, seats, cabin equipment and consoles, floor panels, coverings, emergency equipment, including passenger escape systems and inflatable slides, where appropriate (excluding removal and installation of slides fitted to wide-bodied aircraft), and cargo, crew and/or passenger seat restraints
- Stowages for life jackets, rafts, location transmitters and beacons, including the removal and installation of the equipment, where applicable

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

Primary structure:

- Note that 'primary structure/structural' refers to all components of an aircraft, the failure of which would seriously endanger safety, e.g. wing or tailplane spars, main fuselage frames, engine bearers, portions of skin that are highly stressed. 'Non-primary' refers to any other items

The scope of any modification and the procedure to be followed:

- The scope of any 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

Repair includes:

- Standard techniques as defined by the qualified person and/or the relevant maintenance manual

Maintain includes:

- Removal and installation, 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 MEA330 Maintain aircraft non-primary structural removable components or parts and internal fittings.

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for MEA330 Maintain aircraft non-primary structural removable components or parts and internal fittings

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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, specifications and aircraft/component manuals to:
 - for on-aircraft work, correctly remove and install components covered by the Range of Conditions, including emergency equipment
 - recognise state of serviceability and standard/routine repair requirements for the range of components listed in the Range of Conditions
 - identify requirements under the guidance of a supervisor and complete repairs and/or modifications
 - adjust components under expert guidance, as required
 - where load or functional testing is applicable, in the training environment, set up components for testing and perform tests
- correctly tagging, sealing and packaging completed components.

The underlying skills inherent in this unit should be transferable across a range of maintenance and repair applications associated with the aircraft components listed in the Range of Conditions. It is essential that the relevant enterprise procedures are interpreted and applied to ensure quality and safety standards are achieved.

This shall be demonstrated through application across a number of different aircraft components as listed in the Assessment Conditions.

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 construction and/or operation at a basic level
- standard/routine repair procedures and processes
- relevant WHS practices
- how to obtain MSDS
- use of PPE.

Assessment Conditions

- Competency should be assessed in the work environment or simulated work environment, using tools and equipment specified in maintenance documentation. It is also expected that applicable general and special-purpose tools found in most routine situations would be used where appropriate, and that competency would be demonstrated in setting up components for functional or load testing where such routine tests are specified.
- Ability to assess component serviceability and interpret parts requirements will be necessary 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 qualified person guidance on a representative range of components or parts from each of:
 - non-structural removable components of fuselages, fairings, nacelles, empennage, wings and thrust reversers. For non-pressurised aircraft – entry, cargo, access doors and associated seals, windows and transparent panels
 - trim panels, linings, seats, cabin equipment and consoles, floor panels, coverings, emergency equipment, including passenger escape systems and inflatable slides where appropriate (excluding removal and installation of slides fitted to wide-bodied aircraft), and cargo, crew and/or passenger seat restraints
 - stowages for life jackets, rafts, location transmitters and beacons (including the removal and installation of the equipment where applicable).
- 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).

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