



Australian Government

Department of Education, Employment and Workplace Relations

MEA330B Dismantle, inspect, maintain and assemble aircraft non-primary structural removable components or parts and internal fittings

Release: 2

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Modification History

Minor formatting and editorial changes made. Prerequisite unit version code updated. Missing knowledge requirements reinstated.

Unit Descriptor

This unit of competency is part of a Mechanical Certificate II training pathway. It covers the competencies required to maintain and perform routine basic repairs, under qualified person guidance, on a range of aircraft non-primary structural removable components or parts. This unit is used in workplaces that operate under the airworthiness regulatory systems of the ADF and CASA.

Application of the Unit

This unit requires application of hand skills and maintenance documentation to dismantle, inspect, maintain, and assemble aircraft non-primary structural removable components and interior fittings/emergency equipment under the guidance of a qualified person.

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

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

MEA101B	Interpret occupational health and safety practices in aviation maintenance
MEA103B	Plan and organise aviation maintenance work activity
MEA105C	Apply quality standards applicable to aviation maintenance processes
MEA107B	Interpret and use aviation maintenance industry manuals and specifications
MEA108B	Complete aviation maintenance industry documentation
MEA109B	Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

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| 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 relevant maintenance documentation and qualified person guidance
1.2. Maintenance and/or repair requirements as defined by the qualified person, procedures and the relevant maintenance documentation, are understood
1.3. Tagging and repair instructions are accurately specified in accordance with 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. <i>Routine maintenance, repair or modification processes</i> are carried out as per relevant manufacturers' bulletins or procedures in accordance with required procedures and specifications
2.2. Component parts are assembled within specified tolerances in accordance with procedures and the appropriate maintenance documents
2.3. Where applicable and as required by the qualified person, assistance is provided for 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 procedures
3.2. Where applicable, maintained/repaired or modified components are tagged and packaged within specified procedures |

Required Skills and Knowledge

Required skills

Look for evidence that confirms skills in:

- applying relevant OHS procedures
- using relevant maintenance documentation, specifications and aircraft/component manuals to:
 - for on-aircraft work, correctly remove and install components covered by the Range Statement, including emergency equipment
 - recognise state of serviceability and standard/routine repair requirements for the range of components listed in the Range Statement
 - 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 tag, seal and package completed components

Required knowledge

Look for evidence that confirms knowledge of:

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

Evidence Guide

The Evidence Guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

A person who demonstrates competency in this unit must be able to dismantle, maintain and assemble aircraft non-primary structural removable components or parts under qualified person guidance while observing all relevant safety precautions.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

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 Statement. It is essential that the relevant enterprise procedures are interpreted and applied to ensure quality and safety standards are achieved. Evidence of transferability of skills and knowledge related to maintenance/repair enterprise procedures is essential. This may be demonstrated through application across a number of different aircraft components. 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.

A person cannot be assessed as competent until it can be demonstrated to the satisfaction of the workplace assessor that the relevant elements of the unit of competency are being achieved under qualified person guidance on a representative range of components or parts from each of Groups 1 to 3, as listed in the Range Statement. This shall be established via the records in the Log of Industrial Experience and Achievement or, where appropriate, an equivalent Industry Evidence Guide.

Context of and specific resources for assessment

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 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.

Method of assessment

Guidance information for assessment	
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Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Note	The Range Statements below are numbered to facilitate specification of the assessment requirements included in the Evidence Guide
Routine maintenance, repair or modification processes	Routine maintenance, repair or modification processes may be performed on: 1. 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 2. Trim panels, linings, seats, cabin equipment and consoles, floor panels, coverings, emergency equipment (including passenger escape systems and inflatable slides, where appropriate, i.e. excluding removal and installation of slides fitted to wide-bodied aircraft), and cargo, crew and/or passenger seat restraints 3. Stowages for life jackets, rafts, location transmitters and beacons (including the removal and installation of the equipment, where applicable)
Routine work	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	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 MEA109B Perform basic hand

	skills, standard trade practices and fundamentals in aviation maintenance
Repair	Repair comprises standard techniques as defined by the qualified person and/or the relevant maintenance manual
Maintain	Maintain involves 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
Application	Work can relate to: • routine scheduled or unscheduled maintenance activities performed under qualified person guidance in accordance with enterprise procedures • tasks performed either autonomously or as part of a team and under the guidance of a qualified person
Procedures and requirements	Refer to procedures specified by manufacturers, regulatory authorities or the enterprise

Unit Sector(s)

Aviation maintenance

Competency field

Co-requisite units

Not applicable