



Australian Government

MEA41318 Certificate IV in Aeroskills (Structures)

Release: 1

MEA41318 Certificate IV in Aeroskills (Structures)

Modification History

Release 1. Supersedes and equivalent to MEA41315 Certificate IV in Aeroskills (Structures). Unit codes updated.

Qualification Description

This qualification applies to employees of Civil Aviation Maintenance Organisations (AMOs) or to members of the Australian defence Force (ADF) who are engaged in the repair and modification of aircraft structures. The qualification defines the exit from apprenticeship and may apply to work performed in hangars on the structure of complete aircraft and to work performed in workshops on structural components.

The training pathways provide for work on both metal and composite structures. In some cases, primarily in the General Aviation sector, individuals may be also required to work on aircraft with wooden structures and/or fabric coverings. The applicable competencies are covered in the units MEA357 Inspect, test and repair aircraft fabric surfaces, MEA358 Re-cover aircraft fabric surfaces and MEA359 Inspect and repair aircraft wooden structures.

The qualification consists of:

- common and imported units that apply to all Aeroskills specialist streams at AQF Certificate III and IV levels
- mandatory structures technical stream units
- elective mechanical technical stream units that provide a degree of multi-skilling where needed to meet workplace requirements
- elective structures technical stream and imported units required to meet workplace needs.

The qualification also provides credits towards the MEA50418 Diploma of Aviation Maintenance Management (Mechanical) and the MEA60218 Advanced Diploma of Aviation Maintenance Management (Mechanical). A limited number of credits are also provided towards the MEA50218 Diploma of Aeroskills (Mechanical).

This qualification applies to workplaces that operate under the airworthiness regulatory systems of the ADF and the Civil Aviation Safety Authority (CASA). Any regulatory/licensing requirements associated with any MEA units of competency must be met.

Entry Requirements

Not applicable

Packaging Rules

To be awarded the MEA41318 Certificate IV in Aeroskills (Structures), competency must be demonstrated in **nineteen (19)** units of competency, as follows:

fourteen (14) core units consisting of common, imported and technical stream units

five (5) elective technical stream units from Group A.

Core units of competency

Unit code	Unit title	Prerequisites
MEA107	Interpret and use aviation maintenance industry manuals and specifications	
MEA118	Conduct self in the aviation maintenance environment	
MEA154	Apply work health and safety practices in aviation maintenance	
MEA155	Plan and organise aviation maintenance work activities	MEA154
MEA156	Apply quality standards during aviation maintenance activities	MEA154, MEA107
MEA157	Complete aviation maintenance industry documentation	
MEA158	Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance	
MEA327	Fabricate and/or repair aircraft mechanical components or parts	MEA154, MEA155 MEA156, MEA107 MEA157, MEA158
MEA401	Inspect aircraft structures	MEA154, MEA155 MEA156, MEA107 MEA157, MEA158
MEA420	Fabricate basic structural components for aircraft	MEA154, MEA155 MEA156, MEA107 MEA157, MEA158

Unit code	Unit title	Prerequisites
MEA421	Fabricate advanced structural components for aircraft	MEA154, MEA155 MEA156, MEA107 MEA157, MEA158
MEA422	Repair/modify aircraft metal structure	MEA401
MEA423	Aircraft structure major disassembly and reassembly	MEA401
MSMENV272	Participate in environmentally sustainable work practices	

Elective units of competency

Group A

Select **five (5)** units while observing the unit selection guidelines in column 4.

Unit code	Unit title	Prerequisites	Unit selection guidelines
AVIF3016	Marshal aircraft		Elective
MEA303	Remove and install aircraft pneumatic system components	MEA154, MEA155 MEA156, MEA107 MEA157, MEA158	Elective
MEA304	Remove and install non-pressurised aircraft structural and non-structural components	MEA398	Elective
MEA305	Remove and install aircraft fixed wing flight control system components	MEA398	Elective
MEA308	Remove and install rotary wing rotor and flight control system components	MEA398	Elective
MEA317	Remove and install pressurised aircraft structural and non-structural components	MEA398 MEA303	Elective

Unit code	Unit title	Prerequisites	Unit selection guidelines
MEA367	Repair/modify aircraft composite structure using cold bonding	MEA401	Take this unit or MEA405
MEA398	Remove and install aircraft hydro-mechanical and landing gear system components	MEA154	Elective
MEA405	Repair/modify aircraft composite material structure/components	MEA401	Alternate to MEA367
MEA410	Maintain aircraft structure/components	MEA401	Elective
MEA411	Remove surface coatings from aircraft or aircraft components	MEA154, MEA155 MEA156, MEA107 MEA157, MEA158	Elective
MEA425	Perform bolted composite skin repairs	MEA401	Elective
MEM06003C	Carry out heat treatment		Elective

Qualification Mapping Information

Release 1. Supersedes and equivalent to MEA41315 Certificate IV in Aeroskills (Structures).

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?docId=ce216c9c-04d5-4b3b-9bcf-4e81d0950371&n=Aeroskills%20Training%20Package>