



Australian Government

MEA145 Conversion from allied trades for employment in aviation maintenance workshops

Release: 2

MEA145 Conversion from allied trades for employment in aviation maintenance workshops

Modification History

Release 2. Equivalent to MEA145 Conversion from allied trades for employment in aviation maintenance workshops with amended prerequisite codes.

Application

This unit of competency requires application of common core skills and knowledge that are aviation maintenance specific and meet the requirements of the two Regulators, the Civil Aviation Safety Authority (CASA) and the Australian Defence Force (ADF). The skills and knowledge will be applied during the maintenance of items of aeronautical product in aviation maintenance workshops.

The unit is applicable to individuals with Certificate III or Certificate IV qualifications in allied trades (primarily automotive, electrotechnology or metals and engineering) who are to be employed in aviation maintenance workshops. It covers aviation maintenance-specific parts of common core competencies that must be applied by all individuals employed on the maintenance of items of aeronautical product and which would not have been covered in allied trade units that relate to similar areas of expertise.

The unit is used in workplaces that operate under the airworthiness regulatory systems of the ADF and CASA.

This unit applies to MEA Skill Sets and must not be included in any AQF qualification.

Pre-requisite Unit

MEA157 Complete aviation maintenance industry documentation

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. Identify and access | 1.1 Appropriate manuals are identified and accessed for the |
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aviation industry manuals, specifications and drawings		type of aircraft or component to be maintained
	1.2	Amendment status is clearly established to ensure the correct specifications and procedures are applied
2. Amend manuals, specifications or drawings	2.1	Manual, specification or drawing changes and/or amendments are incorporated and documented correctly in accordance with statutory regulations and/or enterprise procedures
3. Store manuals, specifications or drawings	3.1	Manuals, specifications or drawings are stored appropriately to ensure prevention of damage, ready access and updating of information, when required, in accordance with regulatory and/or enterprise procedures
4. Apply standard trade practices	4.1	Common types of aircraft attachment hardware are correctly selected and used
	4.2	Common types of safety locking devices and fasteners are correctly selected and used
	4.3	Aircraft components, devices and hardware are lockwired in the correct manner, using the appropriate wire gauge
	4.4	Common types of aircraft connectors and plumbing are accurately assembled or connected
5. Interpret and apply quality standards in the aviation maintenance environment	5.1	Standards or specifications set out in maintenance documents and process specifications are identified and interpreted
	5.2	Enterprise quality requirements are identified, confirmed and applied
6. Plan steps and organise work to complete task	6.1	Steps are planned in conjunction with the work of other personnel to allow achievement of practical outcomes in accordance with relevant aircraft publications/maintenance regulations/orders and standards and practices
	6.2	Human factors and work health and safety (WHS) requirements, including the use of material safety data sheets (MSDS), are allowed for in planning of steps
	6.3	Work activity is organised with other involved personnel, allowing for relevant human factors and using relevant communication processes to ensure safe and appropriate sequencing of tasks

- 6.4 All necessary documentation related to job planning and progress is completed and recorded in accordance with relevant aircraft publications/maintenance regulations/orders and standards and practices

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.	
Appropriate manuals include:	• Aircraft publications, maintenance instruction manuals, process specifications, servicing or service bulletins or structural repair manuals • Tooling or equipment manuals, manufacturer's manuals, standard practices, enterprise aviation regulations and publications • Illustrated parts catalogues, aircraft wiring manuals or drawings
Application of standard aviation trade practices includes:	• The selection and use of hand and power tools and equipment associated with workshop-related activities in the aircraft maintenance environment that involve: • laying out and fabricating simple items from common aircraft materials • assembling items using a representative range of common types of aircraft attachment hardware for which relevant fits and clearances, appropriate safety locking devices and fasteners, including lockwire, are correctly selected and applied • assembling/connecting a range of common aircraft connectors and plumbing, applying safety locking devices, where applicable • assembling/connecting aircraft control cables and applying safety locking devices, where applicable
Regulatory and enterprise procedures are found in:	• Civil Aviation Regulations (CARs) or Civil Aviation Safety Regulations (CASRs) • Maintenance organisation manual

	• Procedures manuals • Work instructions • Quality manuals • Safety manuals • Applicable Defence Regulations and instructions • Standing instructions
Human factors include:	• The factors relating to human behaviour and performance in aviation maintenance environments that are defined by either CASA or the ADF
Documentation includes:	• Maintenance logs, overhaul test/check sheets, job history sheets, traveller cards, maintenance reports, irregularity reports, serviceable tags or removal tags • MSDS or material record sheets

Unit Mapping Information

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Links

Companion Volume implementation guides are found in VETNet -

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