Australian Government

Department of Education, Employment and Workplace Relations

MEA41211 Certificate IV in Aeroskills (Armament)

Release: 1

MEA41211 Certificate IV in Aeroskills (Armament)

Modification History

Unit codes updated as required - equivalent

Description

This qualification may apply to members of the ADF who perform scheduled inspections, fault diagnosis and repair, and modification of aircraft egress, stores management and stores suspension systems and system components. It should be noted that employment in this field also involves the attainment of a range of competencies in the explosive ordnance field. The explosive ordnance units of competency are included in the PUA00 Public Safety Training Package and are not included in this qualification.

The qualification defines the exit from training and may apply to aircraft maintenance performed on flight lines and in hangars.

The qualification consists of:

- common units that apply to all Aeroskills specialist streams at Certificate III and IV levels
- avionic technical stream units relating to aircraft system and component maintenance
- one mechanical technical stream unit
- armament technical stream units.

The qualification provides a number of credits towards other Aeroskills Certificate IV qualifications and towards the MEA50311 Diploma of Aviation Maintenance Management (Avionics) and the MEA60111 Advanced Diploma of Aviation Maintenance Management (Avionics).

Pathways Information

Not applicable.

Licensing/Regulatory Information

Not applicable.

Entry Requirements

Not applicable.

Employability Skills Summary

Employability Skill	Industry/enterprise requirements for this qualification include:
Communication	• Understanding work and organisational instructions • Understanding input from specialist personnel and technical representatives • Providing guidance to others and describing clearly faults, problems and spares requirements • Negotiating with other team members or supervisors regarding timing and progress of work activities and access to sections of the aircraft or to equipment • Understanding and interpreting regulations, procedures, instructions and maintenance publications • Completing maintenance documentation and component tags • Interpreting wiring diagrams and system schematics, and reading drawings relating to maintenance activities • Using computers to obtain maintenance data and complete documentation • Networking with other team members regarding work planning and execution
Teamwork	• Performing tasks as an individual while being responsive to supervisors and allowing for relevant human factors • Working effectively with others who may be of different ages, gender, race, religion and political persuasion • Assisting other team members with tasks and providing advice on work processes and troubleshooting
Problem solving	• Identifying problems in a timely manner and developing practical solutions to maintenance problems not fully covered by maintenance data • Proposing solutions to problems as modifications or amendments to specified maintenance processes • Constantly reviewing problem solving skills and ability to effectively apply competencies to solve problems within the limits permitted by regulatory and organisational guidelines • Responding to emergencies or accidents in accordance with regulatory and organisational requirements • Using mathematical techniques to relate test results to system or component performance and to convert values between systems of measurement
Initiative and enterprise	• Adapting to new situations that arise as a consequence of regulatory changes, revised maintenance data, practices and procedures • Varying work practices and behaviour as a result of performance feedback from peers and supervisors

	• Evaluating ideas to ensure that technical and regulatory aspects have been fully covered before proposing action that may result in modifications or changes to work processes • Applying human factors to avoid maintenance errors and maintain quality standards • Adapting competencies to the performance of a wide range of maintenance tasks • Contributing to a process of continuous improvement and a willingness to support and participate in the effective introduction of new work practices
Planning and organising	• Clarifying task objectives and required outcomes through discussion with supervisors and other team members • Monitoring the time taken to complete tasks against team requirements or targets provided by supervisors • Collecting, analysing and organising information relating to assigned maintenance tasks and confirming the purpose and required work outcomes • Identifying the extent of impact on assigned work of changes in procedures, work instructions or regulatory requirements
Self-management	• Accepting responsibility for managing individual workload to meet target completion times or fit in with team milestones • Assessing personal knowledge and skills with the aid of the self-assessment work sheets in the Log of Industrial Experience and Achievement and preparing for competency assessments • Actively seeking opportunities to develop competencies and to apply them across a range of tasks and monitoring performance using indicators such as the extent of oversight exercised by supervisors • Identifying career paths and training opportunities that will assist in attaining career goals
Learning	• Taking advantage of learning opportunities that arise through training courses provided by the organisation or external providers and through mentoring and on-the-job training • Adapting competencies to accommodate new ideas and techniques • Using feedback from supervisors and peers to identify ways in which competence can be improved • Mentoring new or more junior personnel • Interpreting units of competency and applying them to attainment of identified career goals
Technology	• Operating aircraft stores management and suspension systems, test equipment and ground support equipment and troubleshooting faults • Maintaining and changing configuration of aircraft stores management and suspension systems including the safe handling

	of components containing explosive ordnance • Maintaining aircraft egress systems and components, including arming and disarming of egress systems • Using on-board maintenance systems and using maintenance-related software • Testing the performance and calibration of components • Storing and caring for components, parts, tools, test equipment and support equipment • Amending various forms of maintenance data • Using computers and microfiche to obtain maintenance data and using computers to complete documentation

Packaging Rules

To be awarded the MEA41211 Certificate IV in Aeroskills (Armament), competency must be demonstrated in **twenty two (22)** Core units of competency, consisting of:

- **eight (8)** Common and imported units
- **fourteen (14)** Technical stream units.

There are no elective units of competency for this qualification.

Core units of competency

Unit code	Unit title	Prerequisites
MEA101B	Interpret occupational health and safety practices in aviation maintenance	Nil
MEA103B	Plan and organise aviation maintenance work activities	MEA101B, MEA105C, MEA107B, MEA108B
MEA105C	Apply quality standards applicable to aviation maintenance processes	MEA101B, MEA107B
MEA107B	Interpret and use aviation maintenance industry manuals and specifications	Nil
MEA108B	Complete aviation maintenance industry documentation	MEA105C
MEA109B	Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance	MEA105C, MEA108B
MEA118A	Conduct self in the aviation maintenance environment	Nil
MEA201B	Remove and install miscellaneous aircraft electrical hardware/components	MEA101B, MEA103B, MEA105C, MEA107B, MEA108B, MEA109B
MEA203C	Remove and install advanced aircraft electrical system components	MEA201B
MEA211C	Inspect, test and troubleshoot advanced aircraft electrical systems and components	MEA203C, MEA246C
MEA246C	Fabricate and/or repair aircraft electrical hardware or parts	MEA201B, MEA260B

Unit code	Unit title	Prerequisites
MEA260B	Use electrical test equipment	MEA101B, MEA103B, MEA105C, MEA107B, MEA108B, MEA109B
MEA261C	Use electronic test equipment	MEA101B, MEA 103B, MEA105C, MEA107B, MEA108B, MEA 109B
MEA262B	Modify/repair single layer printed circuit boards	MEA260B, MEA261C
MEA301C	Perform aircraft flight servicing	MEA101B, MEA103B, MEA105C, MEA107B, MEA108B, MEA109B
MEA601A	Maintain aircraft egress systems	MEA101B, MEA103B, MEA105C, MEA107B, MEA108B, MEA109B, PUADEFEO101D
MEA602A	Remove and install aircraft stores management system components	MEA101B, MEA103B, MEA105C, MEA107B, MEA108B, MEA109B, PUADEFEO101D
MEA603A	Remove and install aircraft stores suspension systems and components	MEA101B, MEA103B, MEA105C, MEA107B, MEA108A, MEA109B, PUADEFEO101D
MEA604A	Inspect, test and troubleshoot aircraft stores management systems and components	MEA602A
MEA605A	Inspect, test and troubleshoot aircraft stores suspension systems and components	MEA603A
MSAENV272B	Participate in environmentally sustainable work practices	Nil
PUADEFEO101D	Work safely with explosive ordnance	Nil

Custom Content Section

Not applicable.