



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **MEA41110 Certificate IV in Aircraft Life Support and Furnishing**

**Revision Number: 1**

## **MEA41110 Certificate IV in Aircraft Life Support and Furnishing**

### **Modification History**

Not applicable.

### **Description**

This qualification may apply to members of the Australian Defence Force and to employees of civil aviation maintenance organisations who work at supervisor or team leader levels on the maintenance of aircraft and personal life support equipment and on the fabrication and maintenance of aircraft furnishings.

The qualification consists of:

- Mandatory common units that apply to all Aeroskills qualifications at Certificate III and IV levels and elective common units that relate to the regulatory system within which individuals are employed
- Elective technical stream units and imported units

The qualification provides a number of credits towards other Aeroskills qualifications at Certificate III and IV levels and a limited number of credits towards a Diploma or Advanced Diploma of Aviation Maintenance Management.

### **Pathways Information**

Not applicable.

### **Licensing/Regulatory Information**

Not applicable.

### **Entry Requirements**

Not applicable.

## Employability Skills Summary

### EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

Employability Skill	Industry/enterprise requirements for this qualification include:
Communication	<ul style="list-style-type: none"> <li>• Understanding work and organisational instructions</li> <li>• Understanding input from specialist personnel and technical representatives</li> <li>• Negotiating with other team members or supervisors regarding timing and progress of work activities and access to sections of the aircraft, or to equipment</li> <li>• Understanding and interpreting regulations, procedures, instructions and maintenance publications</li> <li>• Completing maintenance documentation</li> <li>• Reading drawings relating to aircraft life support and furnishing and maintenance activities</li> <li>• Using computers to obtain maintenance data and complete documentation</li> <li>• Networking with other team members regarding work planning and execution</li> </ul>
Teamwork	<ul style="list-style-type: none"> <li>• Performing tasks as an individual while being responsive to supervisors and allowing for relevant human factors</li> <li>• Working effectively with others who may be of different ages, gender, race, religion and political persuasion</li> <li>• Assisting team members with task definition and providing advice on work processes and troubleshooting</li> <li>• Providing leadership and development of team commitment and dynamics</li> <li>• Monitoring and assessing team performance and providing mentoring and performance feedback</li> <li>• Gaining the trust and confidence of team members and resolving conflict within the team</li> <li>• Providing team members with the opportunity for ongoing competency development</li> </ul>
Problem-solving	<ul style="list-style-type: none"> <li>• Identifying problems in a timely manner and applying a range of strategies to develop practical solutions to problems not fully covered by maintenance data</li> <li>• Proposing solutions to problems as modifications or amendments to specified maintenance processes</li> <li>• Constantly reviewing problem solving skills and ability to effectively apply competencies to solve individual and team-related problems within the limits permitted by regulatory and organisational guidelines</li> </ul>

**EMPLOYABILITY SKILLS QUALIFICATION SUMMARY**

	<ul style="list-style-type: none"> <li>• Responding to emergencies or accidents in accordance with regulatory and organisational requirements</li> <li>• Using mathematical techniques to apply finishing schemes and to convert values between systems of measurement</li> </ul>
Initiative and enterprise	<ul style="list-style-type: none"> <li>• Adapting to new situations that arise as a consequence of regulatory changes, revised maintenance data, practices and procedures</li> <li>• Varying work practices and behaviour as a result of performance feedback from peers and supervisors</li> <li>• 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</li> <li>• Applying human factors to avoid maintenance errors and maintain quality standards</li> <li>• Identifying and analysing alternative approaches to managing workplace issues and problems</li> <li>• Adapting competencies to the performance of a wide range of maintenance tasks</li> <li>• Contributing to a process of continuous improvement and a willingness to support and participate in the effective introduction of new work practices</li> </ul>
Planning and organising	<ul style="list-style-type: none"> <li>• Clarifying task objectives and required outcomes through discussion with supervisors and other team members</li> <li>• Monitoring the time taken to complete tasks against team requirements or targets provided by supervisors</li> <li>• Collecting, analysing and organising information relating to assigned tasks and confirming the purpose and required work outcomes</li> <li>• Identifying the extent of impact on assigned work of changes in procedures, work instructions or regulatory requirements</li> <li>• Allocating personnel and resources to tasks</li> </ul>
Self-management	<ul style="list-style-type: none"> <li>• Accepting responsibility for managing individual workload to meet target completion times or fit in with team milestones</li> <li>• 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</li> <li>• 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</li> <li>• Identifying career paths and training opportunities that will assist in attaining career goals</li> </ul>

**EMPLOYABILITY SKILLS QUALIFICATION SUMMARY**

Learning	<ul style="list-style-type: none"> <li>• Taking advantage of learning opportunities that arise through training courses provided by the organisation or external providers and through mentoring and on-job training</li> <li>• Adapting competencies to accommodate new ideas and techniques</li> <li>• Using feedback from supervisors and peers to identify ways in which competence can be improved</li> <li>• Mentoring new or more junior personnel</li> <li>• Interpreting units of competency and applying them to attainment of identified career goals</li> </ul>
Technology	<ul style="list-style-type: none"> <li>• Operating PPE and life support and furnishing equipment and ground support equipment and troubleshooting equipment faults</li> <li>• Testing the performance and calibration of life support and furnishing equipment</li> <li>• Storing and caring for life support and furnishing equipment, PPE and support equipment</li> <li>• Amending various forms of maintenance data</li> <li>• Using computers and microfiche to obtain maintenance data and using computers to complete documentation</li> </ul>

**Packaging Rules****Packaging Rules**

To be awarded Certificate IV in Aircraft Life Support and Furnishing, competency must be demonstrated in 26 units of competency, as follows:

10 Core common and imported units

1 Elective unit from the common units listed in Group A

15 Elective units from the technical stream and imported units listed in Group B

**Core Units**

Unit Code	Unit Title	Prerequisite
MEA101B	Interpret occupational health and safety practices in aviation maintenance	Nil
MEA103B	Plan and organise aviation maintenance work activities	MEA101B, 105B, 107B, 108B
MEA105B	Apply quality standards applicable to aviation maintenance processes	MEA101B, 107B

Unit Code	Unit Title	Prerequisite
MEA107B	Interpret and use aviation maintenance industry manuals and specifications	Nil
MEA108B	Complete aviation maintenance industry documentation	MEA105B
MEA109B	Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance	MEA105B, 108B
MEA115A	Plan and implement aeronautical product maintenance activities	Nil
MEA116B	Apply occupational health and safety procedures at supervisor level	Nil
MEA118A	Conduct self in the aviation maintenance environment	Nil
MSAENV472B	Implement and monitor environmentally sustainable work practices	Nil

## Elective Units

### Group A

At least 1 of the following two units chosen in accordance with the unit selection guidelines in column 4

Unit Code	Unit Title	Prerequisite	Unit Selection Guidelines
MEA114A	Certify aeronautical product maintenance		Applicable to those working under CASA Airworthiness Regulations
MEA140A	Supervise aviation maintenance teams and perform maintenance quality inspections		Applicable to those working under ADF Airworthiness Regulations

### Group B

15 of the technical stream and imported units listed below; selected in accordance with the pre-requisites in Column 3 and the unit selection criteria in Column 4.

Unit Code	Unit Title	Prerequisite	Unit Selection Guidelines
MEA240B	Use electrical test equipment to perform basic electrical tests	MEA101B, 103B, 105B, 107B, 108B, 109B	Elective
MEA304C	Remove and install non-pressurised aircraft structural and non-structural components	MEA302C	Elective - do not take with MEA317C
MEA317C	Remove and install pressurised aircraft structural and non-structural components	MEA302C, 303C	Elective - do not take with MEA304C
MEA411A	Remove surface coatings from aircraft or aircraft components	MEA101B, 103B, 105B, 107B, 108B, 109B	Elective
MEA412A	Pre-treat aluminium alloy surfaces	MEA101B, 103B, 105B, 107B, 108B, 109B	Elective
MEA414A	Remove light corrosion	MEA101B, 103B, 105B, 107B, 108B, 109B	Elective - do not take with MEA419A
MEA416A	Apply aircraft identification markings, graphics and decals	MEA101B, 103B, 105B, 107B, 108B, 109B	Elective
MEA419A	Repair/modify aircraft cabin/cockpit non-primary structure components	MEA101B, 103B, 105B, 107B, 108B, 109B	Elective - do not take with MEA414A
MEA501A	Maintain and fit Anti-G suits	MEA101B, 103B, 105B, 107B, 108B,	Elective

Unit Code	Unit Title	Prerequisite	Unit Selection Guidelines
		109B, 118A, 511A LMFSF2002A,	
MEA502A	Maintain and fit helmets	MEA101B, 103B, 105B, 107B, 108B, 109B, 118A, 240B	Elective
MEA503A	Maintain and fit immersion suits	MEA101B, 103B, 105B, 107B, 108B, 109B, 118A, LMTPRTF09BA	Elective
MEA504A	Maintain and fit oxygen masks	MEA101B, 103B, 105B, 107B, 108B, 109B, 118A, 240B	Elective
MEA505A	Maintain and pack parachutes	MEA101B, 103B, 105B, 107B, 108B, 109B, 118A, 511A LMFSF2002A,	Elective
MEA506A	Maintain and pack survival inflatable life rafts and escape slides	MEA101B, 103B, 105B, 107B, 108B, 109B, 118A	Elective
MEA507A	Maintain, pack and fit survival inflatable buoyancy vests	MEA101B, 103B, 105B, 107B, 108B, 109B, 118A	Elective
MEA508A	Maintain, install and remove restraint systems	MEA101B, 103B, 105B, 107B, 108B, 109B, 511A LMFSF2002A,	Elective



<b>Unit Code</b>	<b>Unit Title</b>	<b>Prerequisite</b>	<b>Unit Selection Guidelines</b>
MEA509A	Manufacture, repair and alter aircraft related fabric components	MEA101B, 103B, 105B, 107B, 108B, 109B, 118A, 511A LMFSF2002A,	Elective
MEA510A	Maintain seat and pod electrical and electronic systems	MEA240B	Elective
MEA511A	Operate and maintain sewing machines and overlockers	Nil	Elective
PUADEFEO101C	Work safely with explosive ordnance	Nil	Elective
PUADEFEO501C	Conduct explosive ordnance inspection	Nil	Elective
MEM12001B	Use comparison and basic measuring devices	Nil	Mandatory
AURV231208A	Carry out trimming of vehicle components	Nil	Elective - do not take with LMFUP3012A
AURV231268A	Select and apply trim/fabric materials and determine attachment methods	Nil	Elective
AURV231368A	Select and apply trim/fabric adhesives	Nil	Elective - do not take with LMTTF2008A
LMFSF2001A	Cut single layer fabrics	Nil	Elective
LMFSF2002A	Machine sew materials	Nil	Elective
LMFUP3012A	Apply marine sewing and installation techniques	Nil	Elective - do not take with AURV231208A
LMTTF2008A	Use adhesives	Nil	Elective - do not take with AURV231368A