



Australian Government

Department of Education, Employment and Workplace Relations

MEA20410 Certificate II in Aeroskills

Revision Number: 1

MEA20410 Certificate II in Aeroskills

Modification History

Not applicable.

Description

Qualification Notes

This qualification may be of use to employees of aviation maintenance workshops who are required to perform repair and overhaul tasks on a limited range of aircraft electrical, hydraulic, pneumatic, electro-hydraulic and electro-pneumatic components, or who perform simple repairs on a limited range of structural components.

Units of competency that comprise this qualification are a mix of common units that apply to all technical employment streams covered by the Aeroskills Training Package (core units) and technical stream units that are specific to a technical employment stream (elective units).

The qualification provides significant credits towards higher level Aeroskills Certificates.

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"> • Understanding work and organisational instructions • Seeking guidance and describing clearly faults, problems and spares requirements • Negotiating with team members regarding timing and progress of work activities • Understanding and interpreting procedures, instructions and maintenance publications • Completing maintenance documentation and component tags • 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	<ul style="list-style-type: none"> • Performing tasks as an individual while being responsive to supervisors and allowing for relevant human factors • Working effectively with supervisors, qualified persons providing guidance and other team members who may be of different ages, gender, race, religion and political persuasion • Working effectively as a member of a team and gaining the trust and support of other team members
Problem-solving	<ul style="list-style-type: none"> • With qualified person guidance identifying problems 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 • Responding to emergencies or accidents in accordance with regulatory and organisational requirements • Using mathematical techniques to obtain and apply dimensional and tolerance data and to convert values between systems of measurement
Initiative and enterprise	<ul style="list-style-type: none"> • Adapting to new situations that arise as a consequence of revised maintenance data, practices and procedures • Varying work practices and behaviour as a result of performance feedback during competency development and job performance • Evaluating under guidance ideas that may result in modifications or changes to work processes

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY	
	<ul style="list-style-type: none"> • Applying human factors to avoid maintenance errors and maintain quality standards and adapting competencies to the performance of a 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	<ul style="list-style-type: none"> • Clarifying task objectives and required outcomes with supervisors and with qualified persons providing guidance
Self-management	<ul style="list-style-type: none"> • Accepting responsibility for managing individual workload to meet target completion times or fit in with team milestones • 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 guidance required and the level of supervision exercised by supervisors • Identifying career paths beyond Certificate II, especially with regard to on-aircraft as an aircraft maintenance engineer or component repair and overhaul in workshops
Learning	<ul style="list-style-type: none"> • Taking advantage of learning opportunities that arise through expansion of the range of tasks and through organisational continuation training • Adapting competencies to accommodate new ideas and techniques • Using feedback from qualified persons and supervisors to identify ways in which competence can be improved
Technology	<ul style="list-style-type: none"> • Maintaining components and component parts that are within the scope of competencies and selecting applicable tools and equipment • Storing and caring for components, component parts, tools and support equipment • Using test equipment that is within the scope of competencies held • Amending print-based maintenance publications • Using computers and microfiche to obtain maintenance data and using computers to complete documentation

Packaging Rules

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To be awarded Certificate II in Aeroskills, competency must be demonstrated in one of:

- Avionic: 12 units consisting of 8 Core units plus 3 units from Elective Group A and one unit from either Group B or Group C
- Mechanical: 12 units consisting of 8 Core units plus 3 units from Elective Group B and one unit from either of Groups A and C
- Structures: 11 units consisting of 8 Core units plus 2 units from Elective Group C and one unit from either of Groups A and 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
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
MEA117A	Apply self in the aviation	Nil

Unit Code	Unit Title	Prerequisite
	maintenance environment	
MSAENV272B	Participate in environmentally sustainable work practices	Nil

Elective Units

Group A		
Unit Code	Unit Title	Prerequisite
MEA238B	Perform routine removal and installation of miscellaneous aircraft electrical hardware/components	MEA101B, 103B, 105B, 107B, 108B, 109B
MEA239B	Fabricate aircraft electrical looms and harnesses	MEA240B
MEA240B	Use electrical test equipment to perform basic electrical tests	MEA101B, 103B, 105B, 107B, 108B, 109B
Group B		
Unit Code	Unit Title	Prerequisite
MEA329B	Dismantle, inspect, maintain and assemble aircraft basic hydraulic and pneumatic components or parts	MEA101B, 103B, 105B, 107B, 108B, 109B
MEA330B	Dismantle, inspect, maintain and assemble aircraft non-primary structural removable components or parts and internal fittings	MEA101B, 103B, 105B, 107B, 108B, 109B
MEA331B	Dismantle, inspect,	MEA101B, 103B, 105B, 107B,

Group A		
	maintain and assemble aircraft gas turbine engine components or parts	108B, 109B
MEA332B	Dismantle, inspect, maintain and assemble aircraft mechanical components or parts	MEA101B, 103B, 105B, 107B, 108B, 109B
MEA333B	Dismantle, inspect, maintain and assemble aircraft piston engine components or parts	MEA101B, 103B, 105B, 107B, 108B, 109B
Group C		
Unit Code	Unit Title	Prerequisite
MEA406B	Repair/modify aircraft non-primary structural sheetmetal components	MEA101B, 103B, 105B, 107B, 108B, 109B
MEA407B	Repair/modify aircraft non-primary structural non-metallic components	MEA101B, 103B, 105B, 107B, 108B, 109B