



**Australian Government**

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

# **MEA20510 Certificate II in Aircraft Line Maintenance**

**Revision Number: 1**

## MEA20510 Certificate II in Aircraft Line Maintenance

### Modification History

Not applicable.

### Description

#### Qualification Notes

This qualification is applicable to employees of airlines and other operators of piston, jet and turbo-propeller aircraft and helicopters who are required to hold a CASA A Licence to perform and certify a range of specified maintenance tasks that can be performed with the aircraft on a flight line or at the departure gate. On completion of the required maintenance tasks the individual is authorised to release the aircraft to service.

The qualification satisfies Civil Aviation Safety Authority (CASA) requirements for the grant, under Civil Aviation Safety Regulation Part 66 (and also the equivalent transitional arrangements under CAO 100.66), of an Aircraft Maintenance Engineer A Licence when:

- the skills and knowledge requirements align with CASA syllabus requirements described under 'Licensing' in the Assessment Guidelines and in Appendix 1
- training has been delivered in accordance with the requirements of Civil Aviation Safety Regulation Part 147 (or CAO 100.66 during the transitional period).

The units of competency that comprise this qualification consist of a mix of:

- Common Units that are applicable to all of the employment streams covered by the Aeroskills Training Package or are of an administrative nature relating to the CASA A Licence
- A combination of Avionic, Mechanical and Structures Technical Stream Units that apply to the range of tasks performed by the holders of CASA A Licences.

This qualification provides a number of credits towards higher level Aeroskills certificates and towards the Diploma of Aeroskills (Mechanical) which is required for the grant of a CASA B1 licence.

### 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>• Seeking guidance and describing clearly faults, problems and spares requirements</li> <li>• Negotiating with maintenance controllers or supervisors regarding timing and progress of work activities</li> <li>• Understanding and interpreting regulations, procedures, instructions and maintenance publications</li> <li>• Completing maintenance releases, other documentation and component tags</li> <li>• Reading drawings relating to 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 maintenance controllers or 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>• Working effectively as a member of a maintenance organisation and gaining the trust and support of other members of the organisation</li> </ul>  |
| Problem-solving           | <ul style="list-style-type: none"> <li>• Identifying problems and developing practical solutions to maintenance problems not fully covered by maintenance data that are within the scope of the CASA A Licence</li> <li>• Proposing solutions to problems as modifications or amendments to specified maintenance processes</li> <li>• Responding to emergencies or accidents in accordance with regulatory and organisational requirements</li> <li>• Using mathematical techniques to obtain and apply dimensional and tolerance data 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 revised maintenance data, practices and procedures</li> <li>• Varying work practices and behaviour as a result of performance feedback during competency development and job performance</li> <li>• Evaluating ideas that may result in modifications or changes to</li> </ul>  |

**EMPLOYABILITY SKILLS QUALIFICATION SUMMARY**

|                         |  |
|-------------------------|--|
|                         | <p>work processes within the scope of the CASA A Licence</p> <ul style="list-style-type: none"> <li>• Applying human factors to avoid maintenance errors and maintain quality standards and adapting competencies to the performance of the range of maintenance tasks that are within the scope of the CASA A Licence</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 with maintenance controllers or supervisors</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>• 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 beyond Certificate II, especially with regard to progression to an applicable B1 Licence</li> </ul>   |
| Learning                | <ul style="list-style-type: none"> <li>• Taking advantage of learning opportunities that arise through type training and organisational continuation training</li> <li>• Adapting competencies to accommodate new ideas and techniques</li> <li>• Using feedback from supervisors to identify ways in which competence can be improved</li> </ul>  |
| Technology              | <ul style="list-style-type: none"> <li>• Maintaining aircraft within the scope of the CASA A Licence and selecting applicable tools and support equipment</li> <li>• Storing and caring for components, tools and support equipment</li> <li>• Using test equipment that is within the scope of the CASA A Licence</li> <li>• Amending print-based maintenance publications</li> <li>• Using on-board maintenance systems to identify maintenance requirements</li> <li>• Using computers and microfiche to obtain maintenance data and using computers to complete documentation</li> </ul> |

## Packaging Rules

### Packaging Rules

Competency must be demonstrated in 15 units of competency, as follows:

- 14 Core units made up of common, imported and technical stream units

- One unit from Elective Group A chosen according to the CASA A licence that is being sought

## Core Units

**Take all nine common and imported units listed below**

| 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 maintenance environment   | Nil   |
| MEA119B   | Perform administrative processes to prepare for certification of civil aircraft A level      | All Certificate II units relevant to the applicable A Licence |

| Unit Code  | Unit Title  | Prerequisite                          |
|------------|---|---------------------------------------|
|            | line maintenance  |                                       |
| MSAENV272B | Participate in environmentally sustainable work practices                         | Nil                                   |
| MEA240B    | Use electrical test equipment to perform basic electrical tests                   | MEA101B, 103B, 105B, 107B, 108B, 109B |
| MEA264A    | Remove and install aircraft electrical/avionic components during line maintenance | MEA265A                               |
| MEA265A    | Remove and install general aircraft electrical hardware                           | MEA101B, 103B, 105B, 107B, 108B, 109B |
| MEA344A    | Remove and install aircraft components  | MEA101B, 103B, 105B, 107B, 108B, 109B |
| MEA418A    | Perform basic repair of aircraft internal fittings during line maintenance        | MEA101B, 103B, 105B, 107B, 108B, 109B |

### Elective Units Group A

| Unit Code | Unit Title  | Prerequisite                          | Unit Applicability                   |
|-----------|---|---------------------------------------|--------------------------------------|
| MEA345A   | Perform scheduled line maintenance activities on gas turbine engine fixed wing aircraft | MEA101B, 103B, 105B, 107B, 108B, 109B | Mandatory where A1 Licence is sought |
| MEA346A   | Perform scheduled line  | MEA101B, 103B, 105B, 107B, 108B, 109B | Mandatory where A3 Licence is sought |

| Unit Code | Unit Title  | Prerequisite                          | Unit Applicability                   |
|-----------|---|---------------------------------------|--------------------------------------|
|           | maintenance activities on gas turbine engine rotary wing aircraft                   |                                       |                                      |
| MEA347A   | Perform scheduled line maintenance activities on piston engine fixed wing aircraft  | MEA101B, 103B, 105B, 107B, 108B, 109B | Mandatory where A2 Licence is sought |
| MEA348A   | Perform scheduled line maintenance activities on piston engine rotary wing aircraft | MEA101B, 103B, 105B, 107B, 108B, 109B | Mandatory where A4 Licence is sought |