



**Australian Government**

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

# **MEA114A Certify aeronautical product maintenance**

**Revision Number: 2**

## **MEA114A Certify aeronautical product maintenance**

### **Modification History**

Minor formatting and editorial changes made.

### **Unit Descriptor**

This unit of competency must be attained by individuals working in CASR Part 42 Sub-Part F and Part 145 maintenance organisations who are authorised to return items of aeronautical product to service after the completion of maintenance. It covers the competencies required to correctly interpret and apply CASA airworthiness and certification requirements during aircraft component maintenance.

The units of competency that are specified by the maintenance organisation for the repair, overhaul or modification of the item of aeronautical product being certified for return to service are co-requisites to this unit.

### **Application of the Unit**

This unit requires application of legislative and regulatory requirements relating to the certification of aviation maintenance.

Applications include all aeronautical product maintenance tasks that require certification following completion of maintenance.

### **Licensing/Regulatory Information**

Not applicable.

### **Pre-Requisites**

Not applicable

## Employability Skills Information

This unit contains employability skills.

### Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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### Elements and Performance Criteria

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| 1. Comply with airworthiness regulations | <ul style="list-style-type: none"> <li>1.1. The status of aircraft components and component parts is determined</li> <li>1.2. Eligibility to certify the completion of maintenance activities is determined</li> <li>1.3. Item of aeronautical product is released to service</li> <li>1.4. Maintenance documentation required for certification is raised and compiled</li> <li>1.5. Configuration management procedures are applied</li> <li>1.6. Maintenance-related reports are compiled and processed</li> <li>1.7. Technical communication activities, both oral and written, are performed</li> </ul> |
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## **Required Skills and Knowledge**

### **Required skills**

Look for evidence that confirms skills in:

- describing and applying the requirements applicable to the privileges of their authority
- application of Airworthiness Directive requirements under CASR Part 39
- application of Aviation Maintenance Personnel Licensing Requirements under CASR Part 66
- application of requirements related to conduct and certification of maintenance under CASR Part 145 and CASR Part 42 Subpart F
- demonstrating a familiarity with requirements related to the tasks and functions they may perform
- demonstration of literacy and oral expression skills required for clear written and oral communication

### **Required knowledge**

Look for evidence that confirms knowledge of:

- Airworthiness Directive requirements under CASR Part 39
- Maintainers' Responsibilities under CASR Parts 66, 145 and 42 Subpart F
- Aviation Maintenance Personnel Licensing Requirements under CASR Part 66
- Maintenance Organisations Requirements under CASR Part 145 and 42 Subpart F
- Design Organisations under CASR Part 21J
- Maintenance Training Organisations under CASR Part 147

## Evidence Guide

<p>The Evidence Guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.</p>	
<p><b>Overview of assessment</b></p>	<p>A person who demonstrates competency in this unit must be able to apply without error legislative and regulatory requirements relating to the certification of aeronautical product maintenance.</p>
<p><b>Critical aspects for assessment and evidence required to demonstrate competency in this unit</b></p>	<p>It is essential that airworthiness compliance requirements are interpreted and fully applied without error.</p> <p>Evidence is required of underlying knowledge and skills associated with the application of airworthiness legislation and compliance requirements, along with evidence of appropriate levels of literacy and oral expression associated with presenting clear and concise information.</p> <p>A person cannot be assessed as competent until it can be demonstrated to the satisfaction of the workplace assessor that the relevant elements of the unit of competency are being achieved under supervision without intervention on a range of tasks fully representative of Groups 1 to 18 in the Range Statement. The body of evidence for this unit may be collected and logged during simulated activities at the CASR Part 147 MTO and/or performance during supervised workplace activities.</p> <p>Knowledge must also be demonstrated of the concept of airworthiness that underpins the legislative framework and compliance requirements.</p>
<p><b>Context of and specific resources for assessment</b></p>	<p>Competency should be assessed in the work environment under supervision but without intervention for the purpose of Journal entries, and/or by use of simulated activities in a CASR Part 147 MTO, covering the interpretation and application of airworthiness control and certification requirements.</p>
<p><b>Method of assessment</b></p>	<p>This unit must be linked in its assessment and application to those that apply to the performance of maintenance on the applicable items of aeronautical product.</p>
<p><b>Guidance information for assessment</b></p>	



## Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

### Note

Range statements listed below are numbered to facilitate specification of the assessment requirements included in the Evidence Guide

### Application

The competency applies to the certification of aircraft maintenance activities, including:

1. Scheduled maintenance
2. Unscheduled maintenance
3. Configuration changes
4. Modification incorporation
5. Repairs

In performing Tasks 1 to 5, knowledge is to be applied with regard to airworthiness regulatory systems and Australian legislation, and the application of compliance requirements in the performance, recording and certification of maintenance activities, as follows:

6. International and national regulatory bodies and recognition agreements, including bilateral agreements
7. Australian airworthiness regulatory bodies and the legislative framework
8. The basis of airworthiness certification and determination of non-conformity
9. Procedures for release of aeronautical product to service following maintenance
10. Procedures for certification of scheduled and unscheduled maintenance activities
11. Procedures for certification of the incorporation of modifications
12. Procedures for certifying the completion of repairs
13. Determining and applying configuration management procedures
14. Compiling and processing service difficulty reports
15. Compiling and processing technical investigation

	reports 16. Compiling and processing condition reports 17. Orally communicating on technical and airworthiness compliance topics 18. Communicating in writing on technical and airworthiness compliance issues
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**Unit Sector(s)**

Aviation maintenance

**Competency field****Co-requisite units**

Not applicable