



Australian Government

MEA114 Certify aeronautical product maintenance

Release: 1

MEA114 Certify aeronautical product maintenance

Modification History

Release 1 - New unit of competency

Application

This unit of competency requires application of legislative and regulatory requirements relating to the certification of all aeronautical product maintenance tasks that require certification following completion of maintenance. It must be attained by individuals working in Civil Aviation Safety Regulation (CASR) Part 42 Subpart F and Part 145 maintenance organisations who are authorised to return items of aeronautical product to service after the completion of maintenance during scheduled or unscheduled maintenance. Work may be performed individually or as part of a team.

The units 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 also required in order to apply this standard.

Pre-requisite Unit

Competency Field

Aviation maintenance

Unit Sector

Elements and Performance Criteria

Elements describe the essential outcomes.

1. Comply with airworthiness regulations

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 1.1 The status of aircraft components and component parts is determined
- 1.2 Eligibility to certify the completion of maintenance activities is determined
- 1.3 Item of aeronautical product is released to service
- 1.4 Maintenance documentation required for certification is raised and compiled
- 1.5 Configuration management (CM) procedures are applied

- 1.6 Maintenance-related reports are compiled and processed
- 1.7 Technical communication activities, both oral and written, are performed

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Maintenance activities include:

- Scheduled maintenance
- Unscheduled maintenance
- Configuration changes
- Modification incorporation
- Repairs

In performing each of the above activities, 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:

- international and national regulatory bodies and recognition agreements, including bilateral agreements
- Australian airworthiness regulatory bodies and the legislative framework
- the basis of airworthiness certification and determination of non-conformity
- procedures for release of aeronautical product to service following maintenance
- procedures for certification of scheduled and unscheduled maintenance activities
- procedures for certification of the incorporation of modifications
- procedures for certifying the completion of repairs
- determining and applying CM procedures
- compiling and processing service difficulty reports
- compiling and processing technical investigation

reports

- compiling and processing condition reports
- orally communicating on technical and airworthiness compliance topics
- communicating in writing on technical and airworthiness compliance issues

Unit Mapping Information

Release 1 – equivalent to MEA114A Certify aeronautical product maintenance

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=ce216c9c-04d5-4b3b-9bcf-4e81d0950371>

Assessment Requirements for MEA114 Certify aeronautical product maintenance

Modification History

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Performance Evidence

Evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria under the specified conditions of assessment, and must include:

- describing and applying the requirements applicable to the privileges of their authority
- applying Airworthiness Directive (AD) requirements under CASR Part 39
- applying aviation maintenance personnel licensing requirements under CASR Part 66
- applying 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
- demonstrating literacy and oral expression skills required for clear written and oral communication.

It is essential that airworthiness compliance requirements are interpreted and fully applied without error.

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 English literacy and oral expression associated with presenting clear and concise information.

Knowledge Evidence

Evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- AD 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 and the concept of airworthiness
- Maintenance Training Organisations (MTOs) under CASR Part 147.
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Assessment Conditions

- Competency should be assessed in the work environment under supervision but without intervention for the purpose of Log 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.
- 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.
- The following conditions of assessment represent the requirements of CASA and must be rigorously observed.
- A person cannot be assessed as competent until it can be demonstrated to the satisfaction of the workplace assessor that the relevant elements and performance criteria of the unit of competency are being achieved under supervision without intervention on a range of tasks fully representative of:
 - scheduled maintenance
 - unscheduled maintenance
 - configuration changes
 - modification incorporation
 - repairs.
- In performing each of the above activities, 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:
 - international and national regulatory bodies and recognition agreements, including bilateral agreements
 - Australian airworthiness regulatory bodies and the legislative framework
 - the basis of airworthiness certification and determination of non-conformity
 - procedures for release of aeronautical product to service following maintenance
 - procedures for certification of scheduled and unscheduled maintenance activities
 - procedures for certification of the incorporation of modifications
 - procedures for certifying the completion of repairs
 - determining and applying CM procedures
 - compiling and processing service difficulty reports
 - compiling and processing technical investigation reports
 - compiling and processing condition reports
 - orally communicating on technical and airworthiness compliance topics
 - communicating in writing on technical and airworthiness compliance issues.
- 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.
- Knowledge must also be demonstrated of the concept of airworthiness that underpins the legislative framework and compliance requirements.
- The Assessor must meet the criteria specified in the CASR Part 147 Manual of Standards.

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