



Australian Government

**MEA147 Perform airworthiness
management and maintenance program
tasks**

Release: 1

MEA147 Perform airworthiness management and maintenance program tasks

Modification History

Release 1 - New unit of competency

Application

This unit of competency deals specifically with skills and knowledge required for employment within Civil Aviation Safety Regulation (CASR) Part 42 Continuing Airworthiness Management Organisations (CAMOs) on airworthiness review and maintenance program approval tasks associated with scheduled and unscheduled maintenance.

Work will typically be performed as a staff member of a CAMO as defined in the Part 42 Manual of Standards and in the associated Acceptable Means of Compliance and Guidance Material.

Pre-requisite Unit

MEA137 Write aviation technical publications

Competency Field

Aviation maintenance

Unit Sector

Elements and Performance Criteria

Elements describe the essential outcomes.

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

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|----|------------------------------------|-----|---|
| 1. | Perform airworthiness review tasks | 1.1 | Level of authorisation to perform airworthiness review tasks is determined |
| | | 1.2 | Continuing airworthiness records for the aircraft under review are obtained |
| | | 1.3 | Airworthiness status of the aircraft is determined |

- 1.4 The aircraft is surveyed for compliance with regulations and with the aircraft's approved type design
 - 1.5 The completion of any required corrective action is verified
 - 1.6 A record of the review is written in accordance with CAMO procedures
 - 1.7 The airworthiness review certificate is raised and issued in accordance with CAMO procedures, or, where applicable, a notice of decision not to issue an airworthiness review certificate is raised and issued
2. Perform maintenance program approval tasks
- 2.1 Level of authorisation to perform maintenance program approval tasks is determined
 - 2.2 Maintenance programs are developed in accordance with applicable regulations and CAMO procedures
 - 2.3 Variations to approved maintenance programs are developed in accordance with applicable regulations and CAMO procedures
 - 2.4 Maintenance schedules are developed in accordance with CAMO procedures for inclusion in the maintenance program
 - 2.5 A schedule of life-limited parts is developed in accordance with CAMO procedures for each maintenance program
 - 2.6 Maintenance program approval documentation is raised and processed in accordance with regulatory requirements and CAMO procedures
 - 2.7 Maintenance program variation approval documentation is raised and processed in accordance with regulatory requirements and CAMO procedures
 - 2.8 One-off extensions to maintenance task intervals are processed in accordance with CAMO procedures
 - 2.9 Maintenance program approval records are raised and maintained in accordance with CAMO procedures

- 3. Perform reliability program tasks
 - 3.1 The requirement for a reliability program is determined
 - 3.2 The reliability program is developed and written in accordance with CAMO procedures
 - 3.3 Responsibilities for reliability program administration are determined and recorded in the program
 - 3.4 Reliability data sources are identified and data collection, recording, and analysis procedures and responsibilities are specified in the program details
 - 3.5 Performance standards are determined and recorded in the program details along with a process for regular review
 - 3.6 Procedures are developed for investigation when performance standards are exceeded and for the implementation and recording of corrective action
 - 3.7 Operation of the reliability program is monitored to ensure program effectiveness

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.

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| CAMO authorisations | <ul style="list-style-type: none">• CAMO authorisations may be found in the CAMO Exposition |
| Regulatory requirements, standards and advisory material relating to continuing airworthiness management are found in: | <ul style="list-style-type: none">• Civil Aviation Safety Regulations (CASRs)• CASR Part 42 Manual of Standards• CASR Part 42 Guidance Material and Acceptable Means of Compliance• Users Guide CASR Part 42• CAAP 42M-2(0) Reliability Programs• FAA AC 20-157 How to prepare Reliability Assessment Plans for Aircraft Systems and Equipment• FAR Part 23 Airworthiness Standards for Airplanes in the Normal, Utility, Aerobatic or Commuter Categories• FAR Part 25 Airworthiness Standards for Airplanes in the Transport Category• EASA CS-23 Certification Specifications for Aeroplanes in the Normal, Utility, Aerobatic or Commuter Categories• EASA CS-25 Certification Specifications for Airplanes in the Transport Category• AC 21-15 (1) Supplemental Type Certificates |

Unit Mapping Information

Release 1 – equivalent to MEA147A Perform airworthiness management and maintenance program tasks

Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=ce216c9c-04d5-4b3b-9bcf-4e81d0950371>