



Australian Government

Assessment Requirements for MEA112 Plan and implement civil aircraft maintenance activities

Release: 1

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Modification History

Release 1 - New unit of competency

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 include:

- application of the procedures for the identification of specific maintenance requirements through the review of:
 - maintenance releases
 - manufacturers' maintenance manuals and servicing schedules
 - computer maintenance data systems
 - service bulletins
 - modification incorporation instructions
 - repair instructions
 - feedback from maintenance personnel and aircrew via Technical Logs or approved maintenance documentation
 - AMO internal work instructions or directives
 - ADs
- basic project planning techniques, including planning chart development, timing, prioritising, resourcing, monitoring, performance measurement and evaluation of maintenance tasks
- financial and inventory management as an element of task planning
- the basic function, components, operation and interrelationship of all aircraft systems for the initial rating sought
- problem solving techniques and troubleshooting procedures
- damage assessment philosophies and procedures, particularly with regard to corrosion damage
- cost control during maintenance, including cost effectiveness considerations for different repair types
- philosophies and considerations in repair versus replacement options
- the application of quality management systems in aircraft maintenance
- enterprise and regulatory requirements for undertaking, recording and reporting maintenance activities, including relevant WHS requirements and the use of PPE.

It is essential that maintenance requirements are fully identified and that all applicable aspects of planning and implementation are identified and applied to meet organisational priorities and minimise workplace disruptions.

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:

- methods of determining and specifying maintenance requirements (Maintenance Review Board (MRB), Maintenance Standards Group (MSG), Extended Range Twin Engine Operations (EROPS), RVSM, Maintenance Programs, Minimum Equipment List (MEL), reliability, Air Transport Association (ATA) codes)
- the procedures for the identification of specific maintenance requirements through the review of:
 - maintenance releases
 - manufacturers' maintenance manuals and servicing schedules
 - computer maintenance data systems
 - service bulletins
 - modification incorporation instructions
 - repair instructions
 - feedback from maintenance personnel and aircrew via Technical Logs or approved maintenance documentation
 - AMO internal work instructions or directives
 - ADs
 - the regulations governing aircraft maintenance coordination
- basic project planning techniques, including planning chart development, timing, prioritising, resourcing, monitoring, performance measurement and evaluation of maintenance tasks
- financial and inventory management as an element of task planning
- the basic function, components, operation and interrelationship of all aircraft systems for the initial rating sought
- problem solving techniques and troubleshooting procedures
- damage assessment philosophies and procedures, particularly with regard to corrosion damage
- cost control during maintenance, including cost effectiveness considerations for different repair types
- philosophies and considerations in repair versus replacement options
- the application of quality management systems in aircraft maintenance
- enterprise and regulatory requirements for undertaking, recording and reporting maintenance activities, including relevant WHS requirements and the use of PPE.

Assessment Conditions

- Competency should be assessed under supervision without intervention in the work environment, and/or by use of simulated activities in a CASR Part 147 Maintenance Training Organisation (MTO), covering the full range of maintenance planning and implementation. This unit must be linked in its assessment and application to those that apply to the exercise of Aircraft Maintenance Engineer Licence or Aircraft Maintenance Specialist Certificate privileges in the actual maintenance of aircraft.
- Evidence is required of underlying knowledge and skills in the planning and implementation of maintenance activities, and in the associated compliance with airworthiness regulatory requirements.
- 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 on a task representing each of:
 - determining maintenance requirements
 - identifying personnel resource requirements
 - identifying resources and equipment required to perform maintenance tasks
 - providing regular updates on progress of tasks
 - identifying and applying prescribed instructions, policy, procedures and/or regulatory requirements
 - providing advice and assistance in maintenance activities
 - resolving maintenance problems.
- The Assessor must meet the criteria specified in the CASR Part 147 Manual of Standards.

Links

Companion Volume implementation guides are found in VETNet -

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