



Australian Government

MEA126 Manage aircraft maintenance activities

Release: 3

MEA126 Manage aircraft maintenance activities

Modification History

Release 2.1 Equivalent to MEA126 Manage aircraft maintenance activities. Minor amendments to references to regulations to allow flexibility in their application.

Release 2. Equivalent to MEA126 Manage aircraft maintenance activities. Updated to meet training package policy requirements.

Application

This unit of competency describes the skills and knowledge required to develop, implement, and evaluate the outcomes of aircraft maintenance activities, which include maintenance of the airframe and aircraft systems, power plant, avionic systems, and fitted role equipment. Work may be performed individually or as part of a team.

The unit applies to scheduled and unscheduled maintenance activities performed on flight lines, in hangars, and in workshops. It is used in workplaces that operate under the airworthiness regulatory systems of the Australian Defence Force (ADF) and the Civil Aviation Safety Authority (CASA).

This unit forms part of the CASA requirement for maintenance certification licences under Civil Aviation Safety Regulation (CASR) Part 66. Where a CASA licensing outcome is sought, users must refer to the licensing provisions in the MEA Aeroskills Companion Volume Implementation Guide.

Pre-requisite Unit

Nil.

Competency Field

Aviation maintenance management

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1. Develop an aircraft maintenance program

PERFORMANCE CRITERIA

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

- 1.1 Determine maintenance requirements for aircraft from related documentation
- 1.2 Analyse and prioritise maintenance tasks
- 1.3 Identify resource requirements and allocate resources to ensure timely and efficient completion of maintenance

ELEMENTS	PERFORMANCE CRITERIA
	tasks
2. Implement an aircraft maintenance program	2.1 Communicate and agree roles and responsibilities of maintenance personnel
	2.2 Identify and arrange required resources and equipment to achieve scheduled tasks, including required safety data sheets (SDS) and personal protective equipment (PPE)
	2.3 Regularly consult maintenance personnel to ensure scheduled tasks are achieved
	2.4 Provide advice and assistance with maintenance activities as required
	2.5 Identify and/or anticipate maintenance problems, and avoid or control them according to maintenance program procedures
	2.6 Provide management/stakeholder with updates on maintenance progress in line with organisational requirements and protocols
3. Review compliance and effectiveness of maintenance activities	3.1 Monitor maintenance activities to ensure compliance with authorised instructions, policies and procedures
	3.2 Review and analyse maintenance program effectiveness
	3.3 Identify, investigate and negotiate proposed changes to maintenance program with management/stakeholders
4. Evaluate and report maintenance outcomes	4.1 Evaluate final maintenance outcomes against the program according to organisational policies and procedures
	4.2 Collate, evaluate and distribute maintenance reports to designated authorities according to organisational policies and procedures

Foundation Skills

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

Unit Mapping Information

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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 MEA126 Manage aircraft maintenance activities

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Performance Evidence

There must be evidence the candidate has completed the tasks outlined in the elements and performance criteria of this unit, which must include the ability to:

- manage the activities of one scheduled or one unscheduled aircraft maintenance program; and, during the activities:
 - determine aircraft maintenance requirements
 - determine resource requirements
 - use safety data sheets (SDS) to determine handling precautions and personal protective equipment (PPE) requirements
 - demonstrate fault diagnosis techniques
 - communicate maintenance progress and outcomes with designated personnel and authorities
 - review the compliance and effectiveness of maintenance activities undertaken.

The above maintenance program must involve preventative and corrective maintenance activities.

In the course of the above work, the candidate must:

- demonstrate planning and problem-solving techniques suited to above activity
- use documentation and apply regulations, policies and procedures, including work health and safety (WHS) requirements, to determine maintenance and reporting requirements
- produce verbal and written communication in English to the required level by way of status reports, briefings, maintenance notes, and worksheets.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- sources of information relating to scheduled or unscheduled maintenance activities and configuration change requirements described in the performance evidence, including:
 - computer data systems
 - log books

- authorised maintenance manuals
- management directives
- feedback from maintenance and operating personnel
- aircraft flight and technical records
- aircraft maintenance program
- relevant aviation safety regulations
- aviation maintenance organisation expositions
- continuing airworthiness management organisation expositions
- aircraft type certificate design certificate
- aircraft compliance requirements in authorised instructions, policies and procedures in:
 - manufacturers' operating manuals
 - management directives
 - maintenance manuals
 - relevant aviation safety regulations
 - standing instructions
 - maintenance management plans
 - aviation maintenance organisation expositions
 - continuing airworthiness management organisation expositions
 - procedures manuals
 - work instructions
 - quality assurance instructions
 - work health and safety (WHS) policies and instructions
 - SDS
- factors to consider when determining resource requirements, including:
 - personnel numbers
 - personnel availability
 - personnel qualifications
 - personnel authorisations and experience
 - quantities and availability of parts, consumables, special equipment, ground support equipment, PPE and tools
- basic project planning techniques, including timing, prioritising, resourcing, monitoring and evaluating maintenance tasks
- techniques for mapping maintenance activities and recording progress
- key features and characteristics of the aircraft and systems being maintained
- applicable regulations, organisational policy and procedures manuals, maintenance manuals and instructions
- organisational policy, procedures and protocols, including:
 - fault diagnosis and troubleshooting procedures, damage assessment philosophies and procedures, cost-effectiveness considerations for different repair types, philosophies and considerations in repair versus replacement options

- procedures for updating management and stakeholders on maintenance progress, including those relating to:
 - verbal reports and briefings
 - written reports, including notes, worksheets and briefs
- equity, fraud and ethics requirements set out in organisational code of conduct specific to the maintenance work described in the performance evidence
- sources of WHS standards, requirements, and procedures relating to the safety of self and others when managing the scheduled or unscheduled aircraft maintenance activities described in the performance evidence.

Assessment Conditions

The following conditions of assessment represent the requirements of the regulators (Australian Defence Force [ADF] and Civil Aviation Safety Authority [CASA]) and maintenance stakeholders, and must be rigorously observed.

This unit may be assessed on the job, off the job, or a combination of both. Where assessment occurs off the job, an appropriate simulation must be used where the range of conditions reflects realistic workplace situations encountered when managing aircraft maintenance activities in the applicable airworthiness regulatory system.

The candidate must be permitted to refer to relevant workplace procedures, product and manufacturing specifications, codes, standards, manuals, and reference materials.

The candidate must have access to:

- tools, equipment, and materials required to demonstrate the performance evidence above.

Candidate capability of providing the required performance and knowledge evidence must be established via the records in the Maintenance Management Competency Log. Where the individual does not have a Competency Log, evidence of capability can be gathered through direct observation, supervisor's reports, project work, samples and questioning.

Assessors of this unit must satisfy the assessor requirements in applicable vocational education and training legislation, frameworks and/or standards.

Where the unit is to be used for CASA licensing purposes the assessor must also meet the criteria specified in the CASR Part 147 Manual of Standards.

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