



**Australian Government**

# **MEACOM0025 Manage risk in aviation maintenance**

**Release: 1**

# MEACOM0025 Manage risk in aviation maintenance

## Modification History

Release 1. Application changed. Elements and Performance Criteria changed. Foundation Skills made explicit. Assessment Requirements clarified. Supersedes and is equivalent to MEA141 Manage risk in aviation maintenance.

## Application

This unit describes the skills and knowledge required to identify and manage risks associated with aviation maintenance activities. Work may be performed individually or as part of a team.

The unit applies to scheduled and unscheduled maintenance, and maintenance support or integrated logistic support (ILS) during maintenance.

The unit is used in workplaces that operate under the airworthiness regulatory systems of the Civil Aviation Safety Authority (CASA) and the Defence Aviation Safety Authority (DASA).

Any other relevant legislation, industry standards and codes of practice within Australia must be applied.

## Pre-requisite Unit

Nil

## Competency Field

Aviation maintenance management

## Elements and Performance Criteria

| Elements                                                          | Performance criteria                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Elements describe the essential outcomes.                         | Performance criteria describe the performance needed to demonstrate achievement of the element.                                                                                                                                                                                                                                                                                                                                                              |
| 1. Identify the criteria for aviation maintenance risk management | <p>1.1 Identify risk management procedures from organisation's risk management plan or aviation maintenance organisation exposition</p> <p>1.2 Where a risk management plan does not exist, identify and document potential risks</p> <p>1.3 Determine criteria for managing identified risks according to standard risk management procedures and document them as a risk management plan</p> <p>1.4 Identify process for evaluating and reviewing risk</p> |

| <b>Elements</b>                                            | <b>Performance criteria</b>                                                                                                                                                                                                                                     |
|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Elements describe the essential outcomes.                  | Performance criteria describe the performance needed to demonstrate achievement of the element.                                                                                                                                                                 |
|                                                            | management (including legal impact of risks) plan from organisation's plan, or develop an evaluation methodology and include it in the plan developed according to standard risk management procedures                                                          |
| 2. Manage aviation maintenance risk                        | 2.1 Monitor activities in line with risk management plan<br>2.2 Identify performance deviations and initiate responses according to risk management plan<br>2.3 Monitor and report effectiveness of risk responses according to risk management plan procedures |
| 3. Evaluate aviation maintenance risk management processes | 3.1 Review and analyse risk management outcomes to assess the effectiveness of risk management plan<br>3.2 Develop and process recommendations on variations to the plan according to organisational policies and procedures                                    |

## Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

- Reading skills to interpret risk management procedures.
- Writing and oral communication skills to create risk management plans and report and make recommendations on aviation maintenance risk.

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

## Unit Mapping Information

Release 1. Supersedes and is equivalent to MEA141 Manage risk in aviation 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 MEACOM0025 Manage risk in aviation maintenance

## Modification History

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## Performance Evidence

There must be evidence the candidate has completed all the tasks outlined in the elements and performance criteria of this unit, and demonstrate the ability to develop and document a risk management plan for one scheduled or one unscheduled aviation maintenance program that includes:

- real and potential risks, their probability of occurrence, and degree of severity
- treatment options in each case
- responsibility for implementing treatment options and required response times
- resources required for risk management
- plan implementation timeframe
- periodic review timetable
- internal reporting system
- review methodology.

In the course of the above work, the candidate must identify risks and determine criteria for managing them, including:

- determining level and degree of acceptability of each identified risk
- legal aspects, such as regulatory violations and contractual commitments
- cost of managing specific risks versus cost to the organisation if the risk eventuated
- stakeholder perceptions and expectations.

## Knowledge Evidence

There must be evidence the candidate has knowledge of:

- standard risk management procedures, including:
  - organisational policies and procedures for risk management
  - websites dealing with risk management
  - relevant aviation safety regulations
  - Australian and New Zealand Standard AS/NZS 4360:2004 Risk management
  - ISO 31000:2009 Risk management
- indicators of real and potential risks associated with the aviation maintenance program described in the performance evidence, including:

- human factors, such as fatigue, illness and maintenance errors
- work health and safety (WHS) issues resulting in injury or death
- regulatory and procedural violations, such as inappropriate use of minimum equipment lists and failure to observe type certification standards
- providing maintenance guidance to remotely located aircrew or maintenance personnel
- maintenance difficulties, such as spares shortages and unexpected failures of systems or components
- support equipment failure
- environmental problems
- contractual issues
- skill and experience shortfalls
- maintenance cost escalation
- natural events
- key features of maintenance error management programs
- regulatory impact of risks
- contractual impact of risks
- key features of cost-benefit analysis
- federal and state or territory WHS and environment protection legislation
- methodology for evaluating the operation of risk management plans, including by:
  - oversight of day-to-day operations
  - interviews with personnel in the organisation
  - physical inspections
  - incident reports
  - questionnaires
  - periodic review of risk treatment procedures and outcomes
- techniques for evaluating risks
- equity, fraud and ethics requirements set out in organisational code of conduct specific to the work described in the performance evidence.

## Assessment Conditions

The following conditions of assessment represent the requirements of the regulators (CASA and DASA) and maintenance stakeholders and must be rigorously observed.

Skills must have been demonstrated under routine supervision in the workplace or in a simulated environment that reflects workplace conditions and contingencies encountered in managing risk in aviation maintenance, or a combination of on- and off-the-job assessment. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including:
  - workplace procedures, product and manufacturing specifications, codes, standards, manuals, and reference materials relevant to managing risk in aviation maintenance
  - all tools, equipment, materials, and documentation required to demonstrate the performance evidence above.

Evidence of tasks demonstrating competency must be recorded in a log of industrial experience and achievement.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

## **Links**

Companion Volume implementation guides are found in VETNet -

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