



Australian Government

MEACOM0017 Investigate technical aspects of aviation occurrences

Release: 1

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Modification History

Release 1. Application changed. Elements and Performance Criteria changed. Foundation Skills made explicit. Assessment Requirements clarified. Supersedes and is equivalent to MEA129 Investigate technical aspects of aviation occurrences.

Application

This unit describes the skills and knowledge required to investigate the technical aspects of aviation occurrences, including aircraft accidents, aircraft incidents, and maintenance incidents within the Australian Defence Force (ADF) airworthiness jurisdiction. It involves applying required procedures and technical knowledge in the course of investigations. Investigation may involve a combination of visual observation, interviews, statement reviews, and technical investigation. Work may be performed individually or as part of a team.

The unit is used in workplaces that operate under the airworthiness regulatory systems of 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. Provide first response to an aviation occurrence	1.1 Notify authorities of occurrence according to ADF policy and procedures 1.2 Provide specialist advice relevant to an aviation occurrence 1.3 Plan investigation according to ADF and statutory requirements

Elements	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
2. Collect evidence	2.1 Document evidence of personnel involved in an aviation occurrence 2.2 Interview witnesses and document information 2.3 Collate evidence associated with an aviation occurrence
3. Analyse occurrence	3.1 Analyse information according to established objectives of the investigation 3.2 Generate options for action that are consistent with ADF and/or statutory requirements and lead to recommendations that reduce future risk 3.3 Specify criteria to enable objective evaluation of the options to be undertaken
4. Produce report	4.1 Review collected evidence and make satisfactory engineering conclusions and recommendations 4.2 Review conclusions with stakeholders 4.3 Cost recommendations 4.4 Produce formal reports according to ADF policy and procedures and distribute to designated authorities
5. Implement corrective measures	5.1 Select corrective measures for implementation that are feasible in terms of practicality and costing 5.2 Implement measures in line with recommendations

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 maintenance manuals.
- Numeracy skills to interpret technical information.

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

Unit Mapping Information

Release 1. Supersedes and is equivalent to MEA129 Investigate technical aspects of aviation occurrences.

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 MEACOM0017 Investigate technical aspects of aviation occurrences

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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 demonstrated the ability to:

- conduct an evidence-based investigation into the technical aspects of the following two aviation occurrences within the Australian Defence Force (ADF) airworthiness jurisdiction:
 - one aircraft accident or aircraft incident
 - one maintenance incident.

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

- collect, manage, and analyse evidence based on one or more of the following:
 - visual observation
 - interviews
 - statement reviews
 - technical investigation
- interview witnesses to the occurrence
- produce at least one of the following reports in line with ADF policy and procedures:
 - accident and incident report
 - safety report
 - defect report
 - investigation report
- produce spoken and written communication in English to the required level.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- ADF requirements, policies and procedures and statutory requirements relating to investigating technical aspects of aviation occurrences, including requirements for:
 - planning an investigation
 - producing and distributing occurrence reports
- regulatory requirements and organisational policy and procedures, including:

- investigation procedures, including notifying required authorities of occurrence
- protocols for interviewing witnesses
- application of a no blame culture
- equity, fraud and ethics requirements set out in organisational code of conduct specific to the work described in the performance evidence
- key technical aspects relating to the aircraft type and its systems
- key features of culpability matrix.

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 investigating technical aspects of aviation occurrences, or a combination of both 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, manufacturing specifications, codes, standards, manuals, and reference materials relevant to investigating technical aspects of aviation occurrences
 - tools, equipment, and materials 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. 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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