



Australian Government

MEA129 Investigate technical aspects of aviation occurrences

Release: 2

MEA129 Investigate technical aspects of aviation occurrences

Modification History

Release 2. Equivalent to MEA129 Investigate technical aspects of aviation occurrences.
Updated to meet training package policy requirements.

Application

This unit of competency 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 applies to those involved in aviation maintenance management within ADF airworthiness jurisdiction.

It forms part of the Civil Aviation Safety Authority (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	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**

- | | |
|----------------------------------|--|
| 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

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 MEA129 Investigate technical aspects of aviation occurrences

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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:

- 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 verbal 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 (ADF and the 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 during the technical investigation of aviation occurrences within the ADF 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 Civil Aviation Safety Regulation (CASR) Part 147 Manual of Standards.

Links

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