



Australian Government

Department of Education, Employment and Workplace Relations

MEA141B Manage risk in aviation maintenance

Revision Number: 2

MEA141B Manage risk in aviation maintenance

Modification History

Minor formatting and editorial changes made.

Unit Descriptor

This unit of competency is part of the Aeroskills Advanced Diploma training pathways. It covers the competencies required to manage risk in aviation maintenance organisations while complying with legislative and regulatory requirements. The unit is used in workplaces that operate under the airworthiness regulatory systems of the ADF and CASA.

Application of the Unit

This unit requires application of competencies relating to the identification of risks and the management of risk.

Applications include both management of the performance of maintenance and in the provision of maintenance or ILS.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
---	--

Elements and Performance Criteria

- | | |
|--|---|
| 1. Identify the criteria for risk management | 1.1. Risk management procedures are identified from the organisation's <i>risk management plan/maintenance organisation exposition</i>
1.2. Where a risk management plan does not exist <i>potential risks</i> are identified and documented
1.3. <i>Criteria for managing the identified risks</i> are determined in accordance with <i>standard risk management procedures</i> and documented as a risk management plan
1.4. The process for evaluation and review of the risk management plan is identified from the organisation's plan or an <i>evaluation methodology</i> is developed and included in the plan developed in accordance with criteria 1.3 |
| 2. Manage risk | 2.1. Activities are monitored in accordance with the risk management plan
2.2. Performance deviations are identified and responses are initiated in accordance with the risk management plan
2.3. The effectiveness of risk responses are monitored and reported in accordance with risk management plan procedures |
| 3. Evaluate risk management processes | 3.1. Risk management outcomes are reviewed and analysed to assess the effectiveness of the risk management plan
3.2. Recommendations on variations to the plan are developed and processed in accordance with organisational policy and procedures |

Required Skills and Knowledge

Required skills

Look for evidence that confirms skills in:

- application of standards and procedures for assessing and evaluating risks
- development of risk treatment processes
- assessment of legal impact of risk occurrence
- evaluation of risk management plan operation
- oral communication
- written communication

Required knowledge

Look for evidence that confirms knowledge of:

- organisational policies and procedures for risk management
- CASR Part 145 Manual of Standards, in particular, Acceptable Means of Compliance and Guidance Material
- maintenance error management programs
- AS/NZS ISO 31000:2009 Risk Management - Principles and guidelines
- regulatory impact of risks
- contractual impact of risks
- cost-benefit analysis
- Commonwealth and state/territory OHS and environment protection legislation
- evaluation techniques
- equity, fraud and ethics

Evidence Guide

The Evidence Guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment	A person who demonstrates competency in this unit must be able to develop, apply and evaluate a risk management plan.
Critical aspects for assessment and evidence required to demonstrate competency in this unit	Assessors must be satisfied that the candidate can competently and consistently perform all elements of the unit as specified by the criteria, including required knowledge, and be capable of applying the competency in new and different situations and contexts. Assessors should gather a range of evidence that is valid, sufficient, current and authentic. Evidence can be gathered through a variety of ways, including direct observation, supervisor's reports, project work, samples and questioning. Questioning techniques should not require language, literacy and numeracy skills beyond those required in this unit of competency.
Context of and specific resources for assessment	This unit may be assessed on the job, or a combination of both on and off the job. Where assessment occurs off the job, that is, the candidate is not in productive work, then an appropriate simulation must be used where the range of conditions reflects realistic workplace situations. The candidate must have access to all tools, equipment, materials and documentation required and must be permitted to refer to any relevant workplace procedures, product and manufacturing specifications, codes, standards, manuals and reference materials. The assessment environment should not disadvantage the candidate.
Method of assessment	
Guidance information for assessment	

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Application	Application of this unit may relate to: • scheduled or unscheduled maintenance activities • individual or team-related activities
Risk management plans	Risk management plans may include: • potential risks and 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
Potential risks	Potential risks may include: • human factors, such as fatigue, illness and maintenance errors • OHS 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
Criteria for managing the identified risks	Criteria for managing the identified risks may include: • level and degree of acceptability of each identified risk • legal aspects, such as regulatory violations and

	contractual commitments • cost of managing specific risks versus the cost to the organisation if the risk eventuated • stakeholder perceptions and expectations
Standard risk management procedures	Standard risk management procedures may be found in: • organisational risk management policies • websites dealing with risk management • AS/NZS ISO 31000:2009 Risk Management - Principles and guidelines • CASR Part 145 Manual of Standards
Evaluation methodology	Evaluation methodology may include: • 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

Unit Sector(s)

Aviation maintenance management

Competency field

Co-requisite units

Not applicable