

MEA122B Manage aircraft/equipment system performance testing

Revision Number: 1



MEA122B Manage aircraft/equipment system performance testing

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit of competency is part of the Aeroskills Advanced Diploma training pathways. It covers the competencies required to evaluate and advise on airworthiness as a consequence of aircraft/equipment system performance testing and in compliance with relevant airworthiness regulations.
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Application of the Unit

Application of the unit	This unit requires application of skills and knowledge relating to the use of performance testing in establishing the airworthiness state of aircraft and aircraft systems.
	Applications include aircraft flight testing, engine ground runs, system functional tests and test equipment calibration.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units		
	MEA126B	Manage aircraft maintenance activities

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Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

essential outcomes of a	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold
unit of competency.	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.

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Elements and Performance Criteria

EI	LEMENT	PERFORMANCE CRITERIA
1. Plan and specify aircraft/equipment systems performance tests		1.1. Aircraft/equipment system performance test requirements are established in accordance with airworthiness regulations, policy and procedures 1.2. Aircraft/systems performance tests are programmed in conjunction with appropriate personnel 1.3. Aircraft/systems performance test specifications are communicated to appropriate personnel in
		accordance with organisational policy and procedures
	1.4. Test equipment calibration is managed in accordance with regulatory requirements and organisational policy and procedures	
2.	Assess aircraft/equipment	2.1.Test results are assessed for compliance with test specifications
	systems performance	2.2. Non-compliant test results are identified and diagnosed in consultation with appropriate personnel
		2.3. Aircraft/equipment systems are assessed for airworthiness compliance
		2.4.Rectification <i>recommendations</i> are produced and reported in accordance with airworthiness policy and procedures
		2.5.Test results are documented in accordance with approved guidelines

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Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

Look for evidence that confirms skills in:

- communicating and consulting
- problem solving
- researching
- report writing
- · observing relevant regulatory requirements
- applying occupation health and safety (OHS) requirements associated with engine ground runs and system functional testing

Required knowledge

Look for evidence that confirms knowledge of:

- · procedures and documentation action for test flights
- procedures and documentation action for engine ground runs
- procedures for functional testing of systems and evaluation of results
- · OHS procedures relating to engine ground runs and system functional testing

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Evidence Guide

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 determine the requirement for performance tests, complete the authorisation process and participate in the assessment of results and determining any remedial action. Competency in this unit cannot be claimed until all prerequisites have been satisfied.	
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, off 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		

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Range Statement

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 individual or team-related activities 	
Aircraft/equipment system performance tests	 Aircraft/equipment system performance tests may include: engine ground runs maintenance/validation test flights system functional testing 	
Airworthiness regulations, policy and procedures	 system functional testing Airworthiness regulations, policy and procedures may include: Civil Aviation Regulations (CARs) and associated Advisory Circulars (ACs) Civil Aviation Safety Regulations (CASRs), Manuals of Standards and associated Acceptable Means of Compliance and Guidance Material AAP 7001.053 Technical Airworthiness Maintenance Manual airworthiness directives maintenance management plan maintenance organisation expositions continuing airworthiness management organisation expositions procedures manual work instructions flight test schedule 	
Appropriate personnel	 maintenance manuals Appropriate personnel may include: maintenance test pilots authorised engineering officers 	
	authorised airworthiness representatives	

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RANGE STATEMENT	
	 accountable managers/responsible managers senior maintenance managers continuing airworthiness management personnel authorised maintenance personnel
Recommendations	Recommendations may include: completed test schedules auditable reports

Unit Sector(s)

Unit sector	
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Competency field

Competency field	Aviation maintenance management
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Co-requisite units

Co-requisite units	

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