

Australian Government

Department of Education, Employment and Workplace Relations

MEA115A Plan and implement aeronautical product maintenance activities

Revision Number: 2



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Modification History

Minor formatting and editorial changes made.

Unit Descriptor

This unit of competency covers the competencies required to plan and implement aeronautical product workshop maintenance activities while complying with airworthiness regulatory requirements.

Application of the Unit

This unit requires application of competencies relating to the planning, implementation and evaluation of workshop maintenance activities relating to items of aeronautical product.

Applications include the overhaul, repair and modification of items of aeronautical product.

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	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further
unit of competency.	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.	Plan aeronautical product maintenance activities	1.1. <i>Maintenance requirements</i> are determined from <i>applicable sources</i>
		1.2. Maintenance tasks are analysed and prioritised
		1.3. <i>Resource requirements</i> are identified and allocated to ensure the timely and efficient completion of maintenance tasks
		1.4. Maintenance tasks to be performed are recorded in accordance with <i>enterprise policy and procedures</i>
2.	Implement aeronautical	2.1.Roles and responsibilities of maintenance personnel are communicated and agreed
	product maintenance activities	2.2.Resources and equipment required to perform maintenance tasks are identified and arranged
		2.3.Regular liaison with maintenance personnel is maintained to ensure that tasks are being completed and continuity is maintained
		2.4. Management/stakeholders are provided with regular updates on maintenance progress
		2.5. Maintenance activities are monitored to ensure compliance with prescribed instructions, policy, procedures and/or <i>regulatory requirements</i>
		2.6. <i>Advice and assistance</i> with maintenance activities is provided, as required
		2.7. <i>Maintenance problems</i> are resolved in accordance with the applicable maintenance documentation
3.	Evaluate and report maintenance outcomes	3.1. Final maintenance outcomes are evaluated against the applicable maintenance documentation in accordance with enterprise policy and procedures
		3.2. Maintenance reports are collated, evaluated and forwarded to appropriate management personnel in accordance with regulatory requirements, enterprise policy and procedures
		3.3. Required maintenance release documentation is packaged with items of aeronautical product that are being released to service

Required Skills and Knowledge

Required skills

Look for evidence that confirms skills in:

- oral communication
- written communication
- planning
- problem solving
- management of personnel and resources
- application of regulations, policies and procedures, including OHS

Required knowledge

Look for evidence that confirms knowledge of:

- basic project planning techniques
- problem solving techniques
- basic function and theory of operation of applicable items of aeronautical product
- troubleshooting procedures, including test station operation
- cost-effectiveness considerations for different repair types
- philosophies and considerations in repair vs replacement options
- enterprise and regulatory requirements for undertaking, recording and reporting maintenance activities
- OHS legislation
- 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 plan aeronautical product maintenance, manage a workshop performing the maintenance and evaluate and report appropriately the maintenance outcomes.
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	

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 activitiesindividual or team-related activities	
Maintenance requirements	Maintenance requirements may include:	
	 overhaul repair configuration changes modification incorporation defect investigation 	
Applicable data sources	 Applicable sources may include: component unserviceability details manufacturers' maintenance manuals computer maintenance data systems service bulletins modification incorporation instructions repair instructions management directives 	
Resource requirements	 Resource requirements may include: required numbers of personnel and their availability personnel qualifications, experience and authorisations spares consumables special equipment, including component test stations ground support equipment PPE technical data 	
Enterprise policy and procedures	 Enterprise policy and procedures may be specified in: maintenance organisation manual organisational policy manuals procedures manuals quality manuals safety manuals 	

	defence instructions and standards
	standing instructions
Regular updates	Regular updates may be:
	• written or verbal, including notes, work sheets, status reports, briefs and individual directives
Regulatory requirements	Regulatory requirements may be found in:
	Civil Aviation Regulations or Civil Aviation Safety Regulations
	AAP 7001.053 Technical Airworthiness Maintenance Manual
Advice and assistance	Advice and assistance may include:
	fault diagnosis procedures
	• troubleshooting
	damage assessment
	assessment of repair cost effectiveness
	assessment of replacement options
Maintenance problems	Maintenance problems may include:
	lack of resources
	• unanticipated breakdowns or faults
	changes in priorities

Unit Sector(s)

Aviation maintenance

Competency field

Aviation maintenance management

Co-requisite units

Not applicable