Australian Government

Department of Education, Employment and Workplace Relations

MEA602A Remove and install aircraft stores management system components

Revision Number: 1

MEA602A Remove and install aircraft stores management system components

Modification History

Not applicable.

Unit Descriptor

Unit descriptor	This unit of competency is part of the Armament Certificate IV training pathway. It covers the competencies required to reconfigure aircraft stores management system (SMS) components. The unit was developed from Australian Defence Force Enterprise unit DDDRARM301A Remove and install aircraft stores management systems and components and is equivalent to that unit.

Application of the Unit

Application of the unit	This unit applies to members of the Australian Defence Force who are required to apply explosive ordnance safety and handling procedures, hand skills and use maintenance documentation/publications in the removal and installation of SMS components to meet system reconfiguration requirements. The unit applies to all aircraft with stores management systems.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite units		
	MEA101B	Interpret occupational health and safety practices in aviation

Prerequisite units		
		maintenance
	MEA103B	Plan and organise aviation maintenance work activities
	MEA105B	Apply quality standards applicable to aviation maintenance processes
	MEA107B	Interpret and use aviation maintenance industry manuals and specifications
	MEA108B	Complete aviation maintenance industry documentation
	MEA109B	Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance
	PUADEFEO101B	Work safely with explosive ordnance

Employability Skills Information

Employability skills	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

ELEMENT	PERFORMANCE CRITERIA
1. Prepare aircraft for SMS reconfiguration	1.1. SMS *reconfiguration* task is *verified* from applicable *documentation* 1.2. Aircraft *safety devices* are checked in accordance with relevant *technical publications and manuals* 1.3. Correct *SMS component* is visually identified for reconfiguration 1.4. Appropriate tools and ground support equipment are selected in accordance with the task
2. Remove SMS component	2.1. *Firing devices* are *checked* and removed if fitted 2.2. SMS component is removed from aircraft in accordance with technical publications and manuals 2.3. Protective covers and panels are fitted to aircraft and stores management system component in accordance with technical publications and manuals
3. Install SMS component	3.1. Applicable protective covers and panels are removed from aircraft and SMS component in accordance with technical publications and manuals 3.2. SMS component is fitted to aircraft in accordance with technical publications and manuals
4. Complete and process documentation	4.1. *Applicable* documentation is completed for reconfigured SMS 4.2. Documentation is forwarded to Maintenance Control Section (MCS)

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:

- applying all safety procedures relating to aircraft SMS
- applying hand skills and applicable maintenance documentation in the removal and installation of SMS components
- testing the operation of systems and components
- using ground support equipment and test equipment
- determining SMS reconfiguration requirements
- explosive ordnance safety and handling
- manual handling of SMS components

Required knowledge

Look for evidence that confirms knowledge of:

- the aircraft operating and maintenance environment
- aircraft SMS and interfaces with other aircraft systems
- occupational health and safety (OHS) procedures and policies
- explosive ordnance safety and handling procedures
- technical publications and manuals
- hardware and component attachment methods
- system and component testing requirements
- technical documentation procedures

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 reconfigure SMS by removing and installing system components while observing all relevant safety precautions.
Critical aspects for assessment and evidence required to demonstrate competency in this unit	The underlying skills inherent in this unit should be transferable across a range of aircraft SMS reconfiguration activities. It is essential that assessment confirms the ability to comply with organisational safety requirements and appropriate legislative and regulatory requirements while maintaining SMS. The ability to work safely within an explosive ordnance environment, conduct applicable tests and maintain relevant documentation is critical, including checking specifically for: • failure to check aircraft safety devices are installed • failure to ensure firing devices checked and removed if fitted • commencing task prior to initiating documentation • failure to comply with relevant OHS procedures and policies. Evidence of transferability of skills and knowledge related to SMS component removal and installation is essential. This is to be established through demonstration of the ability to: • render the system safe • perform relevant inspections and tests • replace components • perform appropriate maintenance tasks. The work plan should take account of applicable safety and quality requirements in accordance with the industry and regulatory standards. A person cannot be assessed as competent until it can be demonstrated to the satisfaction of the workplace assessor that the relevant elements of the unit of competency are being achieved under routine supervision on a range of system reconfiguration tasks involving the SMS components listed in Groups 1 to 4 in the Range

EVIDENCE GUIDE	
	Statement. This shall be established via the records in the Log of Industrial Experience and Achievement or, where appropriate, an equivalent Industry .
Context of and specific resources for assessment	Competency should be assessed on aircraft and/or simulator using materials, tools and equipment specified in the maintenance manuals and applicable procedures. It is also expected that general and special purpose tools and ground support equipment would be used where appropriate.
Method of assessment	In addition to evidence provided in the Log of Industrial Experience assessment methods may include questioning and observation in operational or simulated environments. The unit may be assessed independently or in conjunction with unit MEA603A Remove and install aircraft stores suspension system and components.
Guidance information for assessment	

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.	
Reconfiguration and verification activities	Reconfiguration may include: • removal of currently fitted SMS components • installation of specified SMS components Verified may include: • maintenance restrictions • aircraft tail number • aircraft entered as unserviceable • nil stores fitted
Documentation	Documentation may include: • EE500 • CAMM2 documents • SMS documentation
Safety devices	Safety devices may include: • earth lead • aircraft safety pins • aircraft switches
Technical publications and manuals	Technical publications and manuals may include: • aircraft publications • maintenance instruction manuals and process specifications • servicing or service bulletins or structural repair manuals • illustrated parts catalogues, aircraft wiring manuals or drawings • tooling, equipment or manufacturer's manuals • standard practices • enterprise aviation regulations and publications
Note	Range statements listed below are numbered to facilitate specification of the assessment

RANGE STATEMENT	
	requirements included in the Evidence Guide
SMS component	SMS components may include: 1. Mission computer 2. Armament computer 3. Encoder/decoder 4. Control unit
Firing devices and checking	Firing devices may include: • stores release cartridges • chaff and flares • gun system • missiles • loaded stores Checked may include: • visually • physically
Applicable	Applicable may include: • aircraft documentation • SMS component documentation
Application	Application of this unit may relate to: • scheduled or unscheduled maintenance activities • individual or team-related activities
Procedures and requirements	Refer to industry standard procedures specified by manufacturers, regulatory authorities or the enterprise

Unit Sector(s)

Unit sector	

Competency field

Competency field	Aviation maintenance

Co-requisite units

Co-requisite units		