



**Australian Government**

**MEA139 Perform aviation  
maintenance-related integrated logistic  
support management activities**

**Release: 2**

# MEA139 Perform aviation maintenance-related integrated logistic support management activities

## Modification History

Release 2. Equivalent to MEA139 Perform aviation maintenance-related integrated logistic support management activities. Updated to meet training package policy requirements.

## Application

This unit of competency describes the skills and knowledge required to apply integrated logistic support (ILS) elements and related data management and analysis tools in the maintenance-related management and support of systems throughout their life of type. This includes support of scheduled and unscheduled maintenance on aircraft, aircraft systems, avionics systems, and items of aeronautical product. Work may be performed individually or as part of a team.

The unit is used in workplaces that operate under the airworthiness regulatory systems of the Australian Defence Force (ADF) and the Civil Aviation Safety Authority (CASA).

This unit forms part of the 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

Integrated logistic support

## 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. Maintain logistic support analysis plans | 1.1 Review logistic support analysis (LSA) plans in line with trends in system supportability and affordability<br>1.2 Propose revisions to LSA plans |
| 2. Perform life cycle cost                  | 2.1 Identify actual and anticipated costs through to life of type                                                                                     |

| ELEMENTS                                                                                    | PERFORMANCE CRITERIA                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| analysis                                                                                    | 2.2 Analyse cost data                                                                                                                                                                                                                                                          |
| 3. Establish and maintain baselines for reliability, availability and maintainability (RAM) | 3.1 Gather data on in-service RAM<br>3.2 Review data against established baselines and initiate action to deal with deviations from established baselines                                                                                                                      |
| 4. Revise LSA record data                                                                   | 4.1 Analyse LSA parameters using current data<br>4.2 Enter analysis results in the LSA record                                                                                                                                                                                  |
| 5. Manage data                                                                              | 5.1 Develop and manage technical data management system according to contractual and regulatory requirements<br>5.2 Monitor relevance of technical data and initiate amendment action where necessary<br>5.3 Apply and support logistic support management information systems |

## Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

## Unit Mapping Information

Release 2. Equivalent to MEA139 Perform aviation maintenance-related integrated logistic support management activities.

## 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 MEA139 Perform aviation maintenance-related integrated logistic support management activities**

## **Modification History**

Release 2. Equivalent to MEA139 Perform aviation maintenance-related integrated logistic support management activities. Updated to meet training package policy requirements.

## **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:

- apply integrated logistic support (ILS) principles and related data management and analysis tools in the maintenance-related management and support of the following systems and products throughout their life of type and in line with contractual and regulatory requirements:
  - one aircraft or items of aeronautical product
  - one aircraft system or avionics system.

In the course of the above work, the candidate must:

- analyse the life cycle cost of factors that relate to the above system and product, including:
  - its operation
  - engineering support
  - maintenance support
  - supply support
  - facilities' costs
  - personnel costs
- analyse and review data using databases and analysis tools
- populate the logistic support analysis (LSA) record of the following types of analyses:
  - in-service failure mode effects and criticality analysis
  - corrective maintenance analysis
  - reliability centred maintenance analysis
  - maintenance task analysis
  - repair level analysis
- extract data from the database as required
- develop a data management system capable of:
  - maintaining required technical data
  - retaining original and back-up data in separate locations
  - storing data in a manner that minimises risk of loss, theft or destruction

- monitor relevance of technical data by:
  - monitoring engineering, maintenance, and supply support activities
  - using user feedback
- demonstrate oral and written communication skills and task analysis skills to the required level.

## Knowledge Evidence

There must be evidence the candidate has knowledge of:

- ILS management and support philosophy and practice
- LSA concepts and methods, including:
  - preparation of LSA plans
  - management and conduct of LSA programs
  - supportability analysis
  - task analysis
  - LSA record population
- reliability, availability and maintainability (RAM) determination and application, including:
  - baseline determination and application
  - RAM modelling
  - reliability and maintainability apportionment
- key features of databases and tools used to analyse data
- data management concepts and methods
- contractual and regulatory requirements relating to managing technical data management systems, including:
  - Civil Aviation Regulations (CARs) or Civil Aviation Safety Regulations (CASRs)
  - AAP 7001.053 Technical Airworthiness Management Manual.

## Assessment Conditions

The following conditions of assessment represent the requirements of the regulators (Australian Defence Force [ADF] and 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 when performing aviation maintenance-related ILS management activities.

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:

- all ILS management tools, equipment, materials, and documentation 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 CASR Part 147 Manual of Standards.

## **Links**

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=ce216c9c-04d5-4b3b-9bcf-4e81d0950371>