



Australian Government

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

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