



Australian Government

**Assessment Requirements for
MEAENG0004 Apply systems engineering
procedures to airworthiness engineering
design project management**

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Modification History

Release 1. Application changed. Elements and Performance Criteria changed. Foundation Skills made explicit. Range of Conditions removed, and relevant information moved to Assessment Requirements. Assessment Requirements clarified. Supersedes and is equivalent to MEA730 Apply systems engineering procedures to airworthiness engineering design project management.

Performance Evidence

There must be evidence the candidate has completed all the tasks outlined in the elements and performance criteria of this unit and demonstrated the ability to apply systems engineering procedures to the management of at least one airworthiness engineering design project by developing and implementing procedures for identification of systems engineering process inputs during oversight of production and delivery.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- the systems engineering process and management procedures, including the following airworthiness regulations:
 - AAP7001.053 Technical Airworthiness Management Manual
 - Civil Aviation Safety Regulations (CASRs) and related documentation/publications
- how to set up and manage the activities of a systems engineering design team
- development of specifications and standards
- identification of applicable published specifications and standards including:
 - System Engineering Fundamentals (Department of Defence Systems Management College)
 - NASA Systems Engineering Handbook NASA/SP-2007-6105 Rev1
 - System Engineering Plan: ATST Project Documentation Document SPEC-0064 Revision A
 - 7th Annual Conference on Systems Engineering Research 2009 (CSER 2009), Systems Thinking or Systems Engineering
- how to set up and manage a systems analysis and control database
- the range of technical data packages, including:
 - engineering drawings and associated lists
 - technical manuals
 - manufacturing part programs
 - verification provisions

- spares provisioning lists
- specifications developed for the system and system components
- specifications and standards from international and national bodies (government and non-government)
- relevant regulatory standards and requirements
- how to use process outputs to set up CM and ILS systems for through-life management
- how to develop and document an applicable life-cycle management system where CM or ILS is not prescribed or is inappropriate
- ethical considerations in systems engineering.
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Assessment Conditions

Skills must have been demonstrated under routine supervision in the workplace or in a simulated environment that reflects workplace conditions and contingencies encountered in applying systems engineering procedures to airworthiness engineering design project management. The following conditions must be met for this unit:

- use of suitable facilities, equipment and resources, including workplace procedures, manufacturing specifications, codes, standards, manuals, and reference materials.

Evidence of tasks demonstrating competency must be recorded in a log of industrial experience and achievement.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

Links

Companion Volume implementation guides are found in VETNet -

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