



Australian Government

Assessment Requirements for MEA140 Supervise aviation maintenance teams and perform maintenance quality inspections

Release: 2

Assessment Requirements for MEA140 Supervise aviation maintenance teams and perform maintenance quality inspections

Modification History

Release 2. Equivalent to MEA140 Supervise aviation maintenance teams and perform maintenance quality inspections. 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:

- manage and supervise an aviation maintenance team in the Australian Defence Force (ADF) or a contractor organisation maintaining ADF aircraft and items of aeronautical product during one scheduled or one unscheduled maintenance activity.

The above maintenance team must be performing maintenance activities on both an aircraft and items of aeronautical product.

During the course of the work, the candidate must:

- review maintenance data found in applicable sources in order to plan team maintenance activities, including:
 - maintenance records
 - maintenance manuals
 - servicing schedules
 - computer maintenance data systems
 - service bulletins
 - special technical instructions
 - modification orders
 - repair instructions
 - observations and feedback from maintenance personnel and aircrew
 - internal work instructions or management directives
- determine resource requirements for the maintenance activity, including:
 - personnel in required numbers with required experience, qualifications, and task authorisation
 - spares
 - consumables
 - tools
 - special equipment
 - ground support equipment
 - personal protective equipment (PPE)

- provide guidance to team members, including guidance relating to:
 - damage assessment
 - assessment of repair cost effectiveness
 - assessment of replacement options
- monitor the quality of the maintenance activities to ensure they comply with regulatory requirements
- perform maintenance quality inspections
- demonstrate the following skills to the required level:
 - oral communication
 - written communication
 - planning
 - supervision
 - inspection
 - advanced troubleshooting
 - people management
- deliver on-the-job training
- apply work health and safety (WHS) requirements in the workplace.

Knowledge Evidence

There must be evidence the candidate has knowledge of:

- principles of supervision
- high level technical knowledge applicable to the job
- fault diagnosis techniques
- key features and uses of maintenance data and documentation applicable to maintenance activities described in the performance evidence:
 - operating manuals
 - maintenance manuals
 - organisational policy manuals
 - quality manuals
 - safety manuals
 - procedures manuals
 - safety data sheets (SDS)
 - work instructions
 - Defence instructions and standards
 - standing instructions
- regulations, policies and procedures relating to supervision and certification of maintenance, including:
 - AAP 7001.053 Technical Airworthiness Management Manual
 - federal and state or territory WHS legislation

- human factors with the potential to affect job performance in aviation maintenance activities, and associated guidelines
- key principles of employment relations and conditions relating to the work described in the performance evidence, including:
 - relevant sections of industrial awards
 - content of enterprise agreements
 - conditions of employment and service that apply to the particular workplace
- equity, diversity and fraud requirements set out in organisational code of conduct specific to the work described in the performance evidence
- factors to consider when determining resource requirements for maintenance activity plan, including:
 - personnel in required numbers with applicable experience, qualifications and task authorisation
 - spares
 - consumables
 - tools
 - special equipment
 - ground support equipment
 - PPE
- use of PPE
- use and procedures for obtaining confined space entry permits
- techniques to avoid maintenance errors
- key features of the Log of Industrial Experience and Achievement, including responsibility for making entries and responsibility for certifying entries
- role of supervisors in assisting workplace competency assessors
- techniques for delivering on-the-job training.

Assessment Conditions

The following conditions of assessment represent the requirements of the regulators (ADF and the Civil Aviation Safety Authority [CASA]) and maintenance stakeholders, and must be rigorously observed.

This unit may be assessed on the job, or a combination of both. Where partial assessment occurs off the job an appropriate simulation must be used where the range of conditions reflects realistic workplace situations encountered when supervising aviation maintenance teams and performing maintenance quality inspections. The competencies covered by this unit would be demonstrated by an individual working as a team leader.

Candidates must have been appointed as a maintenance quality inspector (MQI) or independent inspector in order to be assessed for this unit of competency.

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:

- tools, equipment, materials, and documentation required to demonstrate the performance evidence above, including items of ground support and test equipment required for the following maintenance activities:
 - power carts
 - hydraulic rigs
 - pneumatic rigs
 - stands and docking
 - component test stands.

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 Civil Aviation Safety Regulation (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>