



Australian Government

MEA105 Apply quality standards applicable to aviation maintenance

Release: 1

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Modification History

Release 1 - New unit of competency

Application

This unit of competency requires application of quality standards in the performance of aviation maintenance activities, including flight line/tarmac, hangar and workshop maintenance tasks, either individually or as a member of a team during scheduled or unscheduled maintenance.

The unit is applicable to all Aeroskills Maintenance training pathways.

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).

Where a CASA licensing outcome is sought this unit forms part of the CASA requirement for the granting of the chosen maintenance certification licence under Civil Aviation Safety Regulation (CASR) Part 66, in accordance with the licensing provisions in the Companion Volume Implementation Guide.

Pre-requisite Unit

MEA101	Interpret work health and safety practices in aviation maintenance
MEA107	Interpret and use aviation maintenance industry manuals and specifications

Competency Field

Aviation maintenance

Unit Sector

Elements and Performance Criteria

Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Interpret quality	1.1 Standards or specifications set out in maintenance documents and process specifications are identified and

standards	interpreted
	1.2 Enterprise quality requirements are identified and confirmed
2. Apply quality standards	2.1 Standards are applied appropriately for individual and team-related activities
	2.2 Defects within the quality system are detected and reported in accordance with standard procedures, including workplace hazards
	2.3 Documentation is handled and completed accurately and clearly to enable information to be easily read or interpreted
3. Interpret quality improvement	3.1 Performance monitoring measures are identified to ensure product or service standards are maintained or improved

Foundation Skills

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

Range of Conditions

This field allows for different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included.

Unit Mapping Information

Release 1 – equivalent to MEA105C Apply quality standards applicable to aviation maintenance processes

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 MEA105 Apply quality standards applicable to aviation maintenance

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Performance Evidence

Evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria under the specified conditions of assessment, and must include:

- the application of workplace hazard reporting and identification procedures
- interpretation and application of information from a range of industry manuals, in particular, amendment status block information, amendment procedures, specification/modification leaflet applicability and changes to drawings
- the correct identification of aircraft hardware, materials and components by marking, part number, size and shape
- being able to differentiate the elements which constitute the system and be able to identify processes, workplace regulations and ISO 9000 compliant documentation and specifications within the workplace environment.

The relationship between broader quality standards requirements and service-specific procedures must be clearly linked. It is essential that actual and potential defects within the quality system are considered, together with ongoing abnormalities of equipment or systems as they affect the quality system.

Knowledge Evidence

Evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- typical quality systems and their operation in the workplace
- workplace quality documentation, such as quality manuals, procedures manuals, work instructions and worksheets
- the relationship between the quality system and work health and safety (WHS) requirements, such as workplace hazard reporting
- the relationship between the quality system and identification systems for aircraft hardware, materials and components
- the role of inspection in maintaining aircraft continuing airworthiness and reliability, including ageing aircraft inspection requirements
- how inspection programs are derived and developed
- individual and organisational responsibility associated with 'on condition' maintenance
- inspection terminology and standards of inspection with regard to the quality system
- identifying potential areas for inspection process improvement as a quality system activity.

Assessment Conditions

- Competency should be assessed in the work environment or by use of simulated activities, covering the application of quality standards in situations within the aircraft maintenance environment.
- Evidence of underlying knowledge and skills associated with the general application of quality standards is required to supplement evidence of ability to integrate these processes in conjunction with other personnel in the workplace.
- This unit must be related in its assessment and application to all other units.
- The following conditions of assessment represent the requirements of the Regulators (ADF and CASA) and maintenance stakeholders and must be rigorously observed.
- A person cannot be assessed as competent until it can be demonstrated to the satisfaction of the workplace assessor that the relevant elements and performance criteria of the unit of competency are being achieved under routine supervision in both single and multiple tasks involving more than one person. This shall be established via the records in the Log of Industrial Experience and Achievement or, where appropriate, an equivalent Industry Evidence Guide (for details refer to the Companion Volume Assessment Guidelines).
- Assessors must satisfy the requirements of the National Vocational Education and Training Regulator (Australian Skills Quality Authority, or its successors).
- 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.

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