



Australian Government

Department of Education, Employment and Workplace Relations

MEA105C Apply quality standards applicable to aviation maintenance processes

Release: 1

MEA105C Apply quality standards applicable to aviation maintenance processes

Modification History

Additional knowledge requirements regarding inspection - units are equivalent.

Unit Descriptor

This unit of competency is applicable to all Aeroskills Maintenance training pathways. It covers the competencies required to correctly apply quality standards applicable to the maintenance of aircraft and aircraft components, either individually, or as a member of a team. The unit is used in workplaces that operate under the airworthiness regulatory systems of the ADF and CASA.

Where a CASA licensing outcome is sought this unit forms part of the CASA requirement for the granting of the chosen Aircraft Maintenance Engineer Licence under CASR Part 66, in accordance with the licensing provisions in the Assessment Guidelines.

Application of the Unit

This unit requires application of quality standards in the performance of aviation maintenance activities.

Applications include flight line/tarmac, hangar and workshop maintenance tasks.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

MEA101B Interpret occupational health and safety practices in aviation maintenance

MEA107B Interpret and use aviation maintenance industry manuals and specifications

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
---	--

Elements and Performance Criteria

- | | | | |
|---|-------------------------------|-----|--|
| 1 | Interpret quality standards | 1.1 | Standards or specifications set out in maintenance documents specifications are identified and interpreted |
| | | 1.2 | Enterprise quality requirements are identified and confirmed |
| 2 | Apply quality standards | 2.1 | Standards are applied appropriately for individual and team-re |
| | | 2.2 | Defects within the quality system are detected and reported in standard procedures |
| | | 2.3 | Documentation is handled and completed accurately and clear information to be easily read or interpreted |
| 3 | Interpret quality improvement | 3.1 | Performance monitoring measures are identified to ensure pro standards are maintained or improved |

Required Skills and Knowledge

Look for evidence that confirms knowledge of:

- typical quality systems and their operation in the workplace
- workplace quality documentation such as quality manuals, procedures manuals, work instructions and work orders
- the relationship between the quality system and OHS 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
- 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

Look for evidence that confirms skills in:

- the application of workplace hazard reporting and identification procedures
- interpretation and application of information from a range of industry manuals, in particular, amendment and change 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 quantity
- being able to differentiate the elements which constitute the system and able to identify processes, workpl
- ISO 9000 compliant documentation and specifications within the workplace environment

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment	A person who demonstrates competency in this unit must be able to interpret and apply quality systems in the workplace and interface quality requirement with OHS procedures and identification systems for aircraft hardware, materials and components.
Critical aspects for assessment and evidence required to demonstrate competency in this unit	<p>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.</p> <p>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.</p> <p>A person cannot be assessed as competent until it can be demonstrated to the satisfaction of the workplace assessor that the relevant elements 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.</p>
Context of and specific resources for assessment	<p>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.</p> <p>This unit must be related in its assessment and application to all other units.</p>
Method of assessment	
Guidance information for assessment	

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Application	Application of this unit may relate to: <ul style="list-style-type: none">• scheduled or unscheduled maintenance• team-related activities• single or multiple tasks
--------------------	---

Unit Sector(s)

Aviation maintenance

Custom Content Section

Not applicable.