



Australian Government

**MEA158 Perform basic hand skills,
standard trade practices and fundamentals
in aviation maintenance**

Release: 1

MEA158 Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance

Modification History

Release 1. Supersedes and equivalent to MEA109 Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance. Revised as a result of changed prerequisites. Unit codes updated.

Application

This unit of competency describes the skills and knowledge required to select and use the hand and power tools and equipment associated with the scheduled and unscheduled maintenance of aircraft and aircraft components. It requires the use of basic hand skills and standard trade practices and fundamentals according to industry standard procedures specified by manufacturers, regulatory authorities, and the organisation. Work may be performed individually or as part of a team.

The unit applies to aviation maintenance on-aircraft or workshop-related activities. It is used in workplaces that operate under the airworthiness regulatory systems of the Australian Defence Force (ADF) and the Civil Aviation Safety Authority (CASA).

This unit forms part of the Civil Aviation Safety Authority (CASA) requirement for maintenance certification licences under Civil Aviation Safety Regulation (CASR) Part 66. Where a CASA licensing outcome is sought, users must refer to the licensing provisions in the MEA Aeroskills Companion Volume Implementation Guide.

Pre-requisite Unit

Nil.

Competency Field

Aviation maintenance

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

- | | |
|---|---|
| 1. Select tools and equipment suited to task requirements | 1.1 Analyse information in maintenance-related documentation and/or other sources, including communication with other personnel, to determine task and tooling requirements |
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ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

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|-----|--|
| 1.2 | Select hand and/or power tools and equipment suitable for use in required task, including lubrication equipment and lubricants |
| 1.3 | Check all tools and equipment to be used for condition or calibration, where necessary |
| 1.4 | Identify unsafe or faulty tools and equipment and mark them for repair according to organisational procedures |
| 2. | Use tools and equipment, applying standard trade practices |
| 2.1 | Use selected tools and equipment according to work health and safety (WHS) requirements and standard practices to ensure correct outcome is achieved safely, efficiently, and without damage to components and tooling |
| 2.2 | Manufacture simple items using basic engineering hand skills |
| 2.3 | Select and use common types of aircraft attachment hardware |
| 2.4 | Select and use common types of safety locking devices and fasteners |
| 2.5 | Lockwire aircraft components, devices and hardware in the correct manner, using the appropriate wire gauge |
| 2.6 | Assemble and connect common types of aircraft connectors and plumbing |
| 3 | Store tools and equipment |
| 3.1 | Undertake operational maintenance of tools and equipment according to standard workshop procedures |
| 3.2 | Store tools and equipment safely and securely in line with organisational procedures |

Foundation Skills

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

Unit Mapping Information

Release 1. Supersedes and equivalent to MEA109 Perform basic hand skills, standard trade practices and fundamentals in aviation maintenance.

Links

Companion Volume implementation guides are found in VETNet -

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