



**Australian Government**

**MEA216 Inspect, test and troubleshoot  
instrument landing systems and  
components**

**Release: 2**

# **MEA216 Inspect, test and troubleshoot instrument landing systems and components**

## **Modification History**

Release 2. Equivalent to MEA216 Inspect, test and troubleshoot instrument landing systems and components with amended prerequisite codes.

## **Application**

This unit of competency requires application of hand skills and the use of system/component knowledge and applicable maintenance publications and test equipment to inspect, test and troubleshoot instrument landing systems (ILS) and components of fixed and rotary wing aircraft during scheduled or unscheduled maintenance. Work may be performed individually or as part of a team.

The unit is part of the Avionic Certificate IV (Aircraft Maintenance Stream) training pathway.

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**

MEA206	Remove and install aircraft basic radio communication and navigation system components
MEA246	Fabricate and/or repair aircraft electrical hardware or parts
MEA293	Remove and install aircraft electronic system components

## **Competency Field**

Aviation maintenance

## **Unit Sector**

## **Elements and Performance Criteria**

Elements describe the                      Performance criteria describe the performance needed to

essential outcomes.

demonstrate achievement of the element.

- |                                   |   |
|-----------------------------------|---|
| 1. Inspect ILS and components     | 1.1 Relevant maintenance documentation and modification status, including system defect reports, where relevant, are used to identify specific inspection requirements                                      |
|                                   | 1.2 Isolation tags are checked and aircraft configured for safe system inspection and operation in accordance with the applicable maintenance manual  |
|                                   | 1.3 ILS components are visually or physically checked for external signs of defects in accordance with applicable maintenance manual while observing all relevant work health and safety (WHS) requirements |
|                                   | 1.4 Defects are correctly identified and reported   |
| 2. Test/adjust ILS and components | 2.1 Aircraft and system are prepared in accordance with applicable maintenance manual for the application of power/system operation   |
|                                   | 2.2 ILS is functionally tested in accordance with maintenance manual for evidence of serviceability or malfunction  |
|                                   | 2.3 System calibration or adjustments are performed in accordance with maintenance manual, as appropriate   |
| 3. Troubleshoot ILS               | 3.1 Available information from maintenance documentation, inspection and test results is used, where necessary, to assist in fault determination  |
|                                   | 3.2 Maintenance manual fault diagnosis guides and logic processes are used to ensure efficient and accurate troubleshooting to line replacement level   |
|                                   | 3.3 Specialist advice is obtained, where required, to assist with the troubleshooting process   |
|                                   | 3.4 ILS faults are located and the causes of the faults are clearly identified and correctly recorded in maintenance documentation, where required, in accordance with standard enterprise procedures       |
|                                   | 3.5 Rectification requirements are determined   |

## 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.

**Procedures and requirements include:**

- Industry standard procedures specified by manufacturers, regulatory authorities or the enterprise

## Unit Mapping Information

Release 2. Equivalent to MEA216 Inspect, test and troubleshoot instrument landing systems and components

## Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=ce216c9c-04d5-4b3b-9bcf-4e81d0950371>