



Australian Government

MEA122 Manage aircraft/equipment system performance testing

Release: 1

MEA122 Manage aircraft/equipment system performance testing

Modification History

Release 1 - New unit of competency

Application

This unit of competency requires application of skills and knowledge relating to the use of performance testing in establishing the airworthiness state of aircraft and aircraft systems through means such as aircraft flight testing, engine ground runs, system functional tests and test equipment calibration during scheduled or unscheduled maintenance. Work may be performed individually or as part of a team.

The unit is part of the Aeroskills Advanced Diploma training pathways. 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).

Pre-requisite Unit

MEA126 Manage aircraft maintenance activities

Competency Field

Aviation maintenance management

Unit Sector

Elements and Performance Criteria

Elements describe the essential outcomes.

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

1. Plan and specify aircraft/equipment systems performance tests

- 1.1 Aircraft/equipment system performance test requirements are established in accordance with airworthiness regulations, policies and procedures including work health and safety (WHS) requirements associated with engine running and system functional testing
- 1.2 Aircraft/systems performance tests are programmed in conjunction with appropriate personnel

- 1.3 Aircraft/systems performance test specifications are communicated to appropriate personnel in accordance with organisational policies and procedures
 - 1.4 Test equipment calibration is managed in accordance with regulatory requirements and organisational policies and procedures
- 2. Assess aircraft/equipment systems performance
 - 2.1 Test results are assessed for compliance with test specifications
 - 2.2 Non-compliant test results are identified and diagnosed in consultation with appropriate personnel
 - 2.3 Aircraft/equipment systems are assessed for airworthiness compliance
 - 2.4 Rectification recommendations are produced and reported in accordance with airworthiness policies and procedures
 - 2.5 Test results are documented in accordance with approved guidelines

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.

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| Aircraft/equipment system performance tests include: | <ul style="list-style-type: none">• Engine ground runs• Maintenance/validation test flights• System functional testing |
| Airworthiness regulations, policies and procedures include: | <ul style="list-style-type: none">• Civil Aviation Regulations (CARs) and associated Advisory Circulars (ACs)• Civil Aviation Safety Regulations (CASRs), Manuals of Standards and associated Acceptable Means of Compliance and Guidance Material• AAP 7001.053 Technical Airworthiness Maintenance Manual• Airworthiness Directives (ADs)• Maintenance management plan• Maintenance organisation expositions• Continuing airworthiness management organisation expositions• Procedures manuals• Work instructions• Flight test schedules• Maintenance manuals |
| Appropriate personnel include: | <ul style="list-style-type: none">• Maintenance test pilots• Authorised engineering officers• Authorised airworthiness representatives• Accountable managers/responsible managers• Senior maintenance managers• Continuing airworthiness management personnel• Authorised maintenance personnel |
| Recommendations include: | <ul style="list-style-type: none">• Completed test schedules• Auditable reports |

Unit Mapping Information

Release 1 – equivalent to MEA122B Manage aircraft/equipment system performance testing

Links

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