



Australian Government

AVIW3025 Complete aircraft and flight equipment pre- and post-flight actions

Release: 1

AVIW3025 Complete aircraft and flight equipment pre- and post-flight actions

Modification History

Release 1. This is the first release of this unit of competency in the AVI Aviation Training Package.

Application

This unit involves the skills and knowledge required to complete aircraft and flight equipment pre- and post-flight actions, in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes preparing aircraft and flight equipment, performing aircraft pre-flight and post-flight actions, and completing post-flight requirements.

This unit addresses aviation technical skill requirements (physical, mental and task-management abilities) related to equipment and system operations of flight crew, and contributes to safe and effective performance in complex aviation operational environments.

Operations are conducted as part of recreational, commercial and military aircraft activities across a variety of operational contexts within the Australian aviation industry.

Work is performed independently or under limited supervision within a single-pilot or multi-crew environment.

Licensing, legislative, regulatory or certification requirements are applicable to this unit.

Use for Defence Aviation is to be in accordance with relevant Defence Orders, Instructions, Publications and Regulations.

Pre-requisite Unit

Not applicable.

Competency Field

W – Equipment and Systems Operations

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

1 Prepare aircraft and flight equipment

- 1.1 Aircraft fuel levels are confirmed as sufficient to achieve flight requirements
- 1.2 Personal survival equipment is inspected and prepared for use
- 1.3 Flight equipment is stowed appropriately in aircraft
- 1.4 Applicable aircraft publications are obtained or accessed

2 Perform aircraft pre-flight and post-flight actions

- 2.1 Aircraft maintenance documentation is inspected for correct compilation and completion
- 2.2 Information/documentation about serviceability of aircraft, engineering limitations, fuel state and configuration is obtained and assessed for flight or mission capability
- 2.3 Aircraft pre-flight inspections are conducted
- 2.4 Aircraft fluid systems are checked and replenished as approved by flight crew maintenance
- 2.5 Aircraft post-flight inspections are conducted
- 2.6 Aircraft discrepancies and unserviceabilities are reported

3 Complete post-flight requirements

- 3.1 Aircraft publications are stored and updated
- 3.2 Specialist flight equipment is inspected and stored for future use
- 3.3 Personal survival equipment is inspected and stored in appropriate areas
- 3.4 Identified flight equipment unserviceabilities are reported and recorded in accordance with maintenance recording requirements

Foundation Skills

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

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

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| Aircraft publications must include one or more of the following: | <ul style="list-style-type: none">• aviation maintenance documentation• checklists• flight manuals• organisational policy and procedures manuals |
| Specialist flight equipment must include one or more of the following: | <ul style="list-style-type: none">• aeromedical evacuation equipment• cargo securing equipment• firefighting equipment• intelligence gathering equipment• load-lifting equipment• night vision imaging systems and associated equipment• pyrotechnics• search and rescue equipment• transfer equipment• troop carrying equipment• weapons |
| Information/documentation must include one or more of the following: | <ul style="list-style-type: none">• aeronautical information publication (AIP)• aircraft flight manual (AFM)• approved checklists• charts• in a Defence context, relevant Defence Orders and Instructions• induction and training materials• operations manuals• pilot operating handbook (POH)• relevant sections of Civil Aviation Safety Regulations• workplace procedures and instructions, and job specification |

Unit Mapping Information

This unit is equivalent to AVIW3025A Complete aircraft/flight equipment pre- and post-flight actions.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=4725260a-0af3-4daf-912b-ef1c2f3e5816>

Assessment Requirements for AVIW3025 Complete aircraft and flight equipment pre- and post-flight actions

Modification History

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and the range of conditions on at least one occasion and include:

- applying precautions and required action to minimise, control or eliminate identified hazards
- applying relevant aeronautical knowledge
- applying relevant legislation and workplace procedures
- communicating effectively with others
- completing relevant documentation
- identifying and using ground support equipment required for replenishing aircraft systems
- identifying and using required communications technology
- implementing contingency plans
- implementing work health and safety (WHS)/occupational health and safety (OHS) procedures and relevant regulations
- interpreting and following aircraft documentation
- interpreting and following operational instructions and prioritising work
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring work activities in terms of planned schedule
- operating and adapting to differences in communications equipment in accordance with standard operating procedures
- operating specialist equipment
- planning own work, predicting consequences and identifying improvements
- reading, interpreting and following relevant regulations, instructions, procedures, information and signs
- reporting and rectifying identified problems, faults or malfunctions promptly, in accordance with workplace procedures
- working collaboratively with others
- working systematically with required attention to detail without injury to self or others, or damage to goods or equipment.

Knowledge Evidence

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

- aircraft and aircraft systems configuration and operation
- aircraft and flight equipment inspection procedures and serviceability criteria
- documentation inspection and compilation procedures
- pre- and post-flight inspection procedures
- relevant Australian Standards
- relevant legislation and regulations:
 - Civil Aviation Safety Regulations (CASRs) and Civil Aviation Orders related to aircraft maintenance
 - state/territory environmental protection
 - national and state/territory WHS/OHS
- relevant WHS/OHS responsibilities
- specialist equipment inspection procedures
- specialist equipment uses, capabilities and limitations
- typical problems that may occur when completing aircraft and flight equipment pre- and post-flight actions, and appropriate solutions.

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the *Standards for Registered Training Organisations* current at the time of assessment.

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Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or simulations
- acceptable means of simulation assessment
- applicable documentation including workplace procedures, regulations, codes of practice and operation manuals
- relevant materials, tools, equipment and personal protective equipment currently used in

industry.

Links

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