



Australian Government

AVIW3025A Complete aircraft/equipment pre- and post-flight actions

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

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This unit involves the skills and knowledge required to prepare aircraft and specialist equipment for a flight, and to perform and certify flight-servicing inspections including pre- and post-flight requirements. Licensing, legislative, regulatory or certification requirements are applicable to this unit.

Application of the Unit

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Work must be carried out in compliance with the relevant regulatory requirements of the Civil Aviation Safety Authority and national operating standards.

Use for ADF Aviation is to be in accordance with relevant Defence Orders and Instructions and applicable CASA compliance.

Operations are conducted across a variety of operational contexts within the Australian aviation industry.

Work is performed under limited supervision.

This unit of competency is nominally packaged at Certificate III.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

Employability Skills 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 required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1 Prepare flight aircraft and equipment	<p>1.1 Aircraft is refuelled as required in accordance with organisational policies and procedures</p> <p>1.2 Personal survival equipment is inspected and prepared for use</p> <p>1.3 Loose equipment is stowed appropriately in aircraft</p> <p>1.4 Applicable aircraft publications are obtained</p>
2 Perform aircraft pre-flight and post-flight actions	<p>2.1 Aircraft maintenance documentation is inspected for correct compilation and completion in accordance with organisational policies and procedures</p> <p>2.2 Serviceability of aircraft, engineering limitations, fuel state and configuration are obtained and assessed for flight/mission capability</p> <p>2.3 Aircraft pre-flight inspections are completed in accordance with organisational policies and procedures</p> <p>2.4 Aircraft fluid systems are checked and replenished in accordance with aircraft maintenance manuals</p> <p>2.5 Aircraft post-flight inspections are completed in accordance with organisational policies and procedures</p> <p>2.6 Discrepancies/unserviceabilities are reported in accordance with organisational policies and procedures</p>
3 Complete post-flight requirements	<p>3.1 Aircraft publications are accounted for and returned in accordance with organisational policies and procedures</p> <p>3.2 Specialist flight equipment is inspected and re-stowed in accordance with organisational policies and procedures</p> <p>3.3 Personal survival equipment is inspected and re-stowed in accordance with organisational policies and procedures</p> <p>3.4 Unserviceabilities are reported and recorded in accordance with organisational policies and procedures</p>

Required Skills and Knowledge

REQUIRED KNOWLEDGE AND SKILLS

This describes the essential knowledge and skills and their level required for this unit.

Required knowledge:

- Aircraft refuelling procedures
- Personal survival equipment inspection procedures and requirements
- Specialist equipment inspection procedures
- Specialist equipment uses, capabilities and limitations
- Aircraft and aircraft systems configuration and operation
- Aircraft weapons and pyrotechnics safety (where applicable)
- Documentation inspection and compilation procedures
- Pre- and post-flight inspection procedures
- Use of ground support equipment
- Relevant OH&S responsibilities
- Typical problems that may occur when completing aircraft/equipment pre- and post-flight actions, and appropriate solutions

Required skills:

- Complete documentation related to completing aircraft/equipment pre- and post-flight actions
- Identify and use ground support equipment required for the replenishment of aircraft systems
- Interpret and follow aircraft documentation
- Operate specialist equipment
- Communicate effectively with others when completing aircraft/equipment pre- and post-flight actions
- Read and interpret instructions and procedures relevant to completing aircraft/equipment pre- and post-flight actions
- Interpret and follow operational instructions and prioritise work
- Identify and use required communication technology
- Work collaboratively with others when completing aircraft/equipment pre- and post-flight actions
- Adapt appropriately to cultural differences in the workplace, including modes of behaviour and interactions with others
- Promptly report and/or rectify any identified problems, faults or malfunctions that may occur when completing aircraft/equipment pre- and post-flight actions in accordance with workplace procedures
- Implement contingency plans for unanticipated situations that may arise when completing aircraft/equipment pre- and post-flight actions

REQUIRED KNOWLEDGE AND SKILLS

- Apply precautions and required action to minimise, control or eliminate hazards that may exist when completing aircraft/equipment pre- and post-flight actions
- Plan own work including predicting consequences and identifying improvements
- Monitor work activities in terms of planned schedule
- Modify activities depending on differing operational contingencies, risk situations and environments
- Work systematically with required attention to detail without injury to self or others, or damage to goods or equipment
- Operate and adapt to differences in communication equipment in accordance with standard operating procedures

Evidence Guide

EVIDENCE GUIDE

The Evidence Guide provides advice on assessment and must be read in conjunction with the performance criteria, required knowledge and skills, the range statement and the assessment guidelines for this Training Package.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

- The evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria of this unit and include demonstration of applying:
 - the underpinning knowledge and skills
 - relevant legislation and workplace procedures
 - other relevant aspects of the range statement

Context of and specific resources for assessment

- Performance is demonstrated consistently over a period of time and in a suitable range of contexts
- Resources for assessment include:
 - a range of relevant exercises, case studies and/or other simulated practical and knowledge assessment, and/or
 - access to an appropriate range of relevant operational situations in the workplace
 - In both real and simulated environments, access is required to:
 - relevant and appropriate materials and equipment, and
 - applicable documentation including workplace procedures, regulations, codes of practice and operation manuals

Method of assessment

- Assessment of this unit must be undertaken by a registered training organisation
- As a minimum, assessment of knowledge must be conducted through appropriate written/oral tests
- Practical assessment must occur:
 - through activities in an appropriately simulated environment at the registered training organisation, and/or
 - in an appropriate range of situations in the workplace

Range Statement

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.

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| Aircraft may include: | <ul style="list-style-type: none"> • single or multiple engine • fixed or rotary wing |
| Aircraft may be refuelled from: | <ul style="list-style-type: none"> • fuel bowsers • drum stock • ship's fuelling equipment |
| Aircraft fluid systems may include: | <ul style="list-style-type: none"> • hydraulic • fuel • lubrication • windscreen washer |
| Aircraft publications may include: | <ul style="list-style-type: none"> • checklists • flight manuals • organisational policy and procedures manuals • aviation maintenance documentation |
| Specialist equipment may include: | <ul style="list-style-type: none"> • aeromedical evacuation equipment • search and rescue equipment • load lifting equipment • transfer equipment • fire-fighting equipment • troop carrying equipment • intelligence gathering equipment • cargo securing equipment • night vision and associated equipment • weapons • pyrotechnics |
| Depending on the type of organisation concerned and the local terminology used, workplace procedures may include: | <ul style="list-style-type: none"> • company procedures • enterprise procedures • organisational procedures • established procedures |
| Information/documentation may include: | <ul style="list-style-type: none"> • relevant sections of Civil Aviation Safety Regulations • in Defence context, relevant Defence Orders and Instructions • Flight Manual/Pilot's Operating Handbook (POH) • Aeronautical Information Publication (AIP) • charts • operations manuals • approved checklists |

RANGE STATEMENT

Applicable regulations and legislation may include:

- workplace procedures and instructions and job specification
- induction and training materials
- conditions of service, legislation and industrial agreements including workplace agreements and awards
- relevant Civil Aviation Safety Regulations and Civil Aviation Orders
- in Defence context, relevant Defence Orders and Instructions
- relevant state/territory OH&S legislation
- relevant state/territory environmental protection legislation
- relevant Australian Standards

Unit Sector(s)

Not applicable.

Competency field

Competency Field

W - Equipment and Systems Operations