



Australian Government

AVIW3027 Deliver pyrotechnics and handheld stores

Release: 1

AVIW3027 Deliver pyrotechnics and handheld stores

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 deliver pyrotechnics and handheld stores, in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes preparing pyrotechnics or stores for aerial delivery, deploying pyrotechnics or stores, and responding to inflight pyrotechnic and stores emergencies.

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

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

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|---|---|
| 1 Prepare pyrotechnics or stores for delivery | 1.1 Information/documentation about pyrotechnics or handheld stores is obtained, read and used to guide work as required
1.2 Pyrotechnics or stores are stored securely in aircraft
1.3 Pyrotechnics or stores are inspected for serviceability in accordance with preparation procedures
1.4 Pyrotechnics or stores are prepared and/or armed for use in accordance with preparation instructions |
| 2 Deploy pyrotechnics or stores | 2.1 Personal protective equipment is selected and used in accordance with organisational policies and procedures
2.2 Hazards are identified, risks are assessed and hazard management is implemented
2.3 Pyrotechnics or handheld stores are released or deployed in accordance with operational instructions |
| 3 Respond to inflight pyrotechnics or stores emergency | 3.1 Pyrotechnic or handheld stores emergencies are identified
3.2 Emergency procedures are implemented and appropriate response are undertaken |

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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| Information/documentation must include one or more of the following: | <ul style="list-style-type: none"> • aeronautical information publication (AIP) • approved checklists • charts • conditions of service, legislation and industrial agreements including workplace agreements and awards • relevant sections of Civil Aviation Safety Regulations (CASR) • induction and training materials |
|--|--|

- Pyrotechnics or handheld stores must include one or more of the following:
- flight manual/pilot operating handbook (POH)
 - operations manuals
 - workplace procedures and instructions, and job specification
 - chaff
 - expendable mobile anti-submarine warfare training targets (EMATTS)
 - flares
 - heliboxes
 - life rafts
 - marker marines
 - search and rescue (SAR) datum buoys
 - signal underwater sound
 - smoke
 - sonobuoys
- Emergencies must include one or more of the following:
- aircraft emergencies
 - aircraft malfunction
 - battery malfunctions
 - hung sonobuoy
 - inadvertent release
 - premature discharge

Unit Mapping Information

This unit replaces and is equivalent to AVIW3027A Deliver pyrotechnics and hand held stores.

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 AVIW3027 Deliver pyrotechnics and handheld stores

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 range of conditions on at least one occasion and include:

- applying precautions and required action to minimise, control or eliminate identified hazards
- applying relevant legislation and workplace procedures
- completing relevant documentation
- identifying and using required communications technology
- implementing arming and preparation procedures for pyrotechnics and handheld/air launched stores
- implementing contingency plans
- implementing work health and safety (WHS)/occupational health and safety (OHS) procedures and relevant regulations
- interpreting and following flight and operational manuals and safety policies
- 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
- performing serviceability inspection of pyrotechnics and handheld/air launched stores
- planning own work, predicting consequences and identifying improvements
- reading, interpreting and following relevant regulations, instructions, procedures, information and signs
- reporting and/or 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:

- in a Defence context, relevant Defence Orders and Instructions
- organisational policies and procedures for storing pyrotechnics and handheld/air launched stores
- practices for pyrotechnic and handheld/air launched stores delivery
- preparation and arming procedures of pyrotechnics and handheld/air launched stores
- procedures and protocols for using communications systems during an emergency
- relevant emergency procedures and duty of care requirements
- relevant Australian Standards
- relevant legislation and regulations:
 - Civil Aviation Safety Regulations (CASR) and Civil Aviation Orders (CAO)
 - state/territory environmental protection
 - national and state/territory WHS/OHS
- relevant WHS/OHS responsibilities
- serviceability inspection procedures for pyrotechnics and handheld/air launched stores
- typical problems that may occur when delivering pyrotechnics and handheld/air launched stores, and appropriate action and solutions
- WHS/OHS policies relating to pyrotechnic and handheld/air launched stores delivery.

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.

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