



Australian Government

AVIF2015 Utilise emergency breathing system

Release: 1

AVIF2015 Utilise emergency breathing system

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 utilise an emergency breathing system (EBS), in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards. Use of this unit in non-aviation related safety roles is to be in accordance with relevant industry and national regulatory requirements.

It includes preparing an EBS for use, operating an EBS and completing EBS post-operational procedures.

This unit addresses aviation technical skill requirements (physical, mental and task-management abilities) related to safety management duties of flight crews, 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

F – Safety Management

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.

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|---|---|
| 1 Prepare an EBS for use | 1.1 EBS pre-flight inspection is conducted |
| | 1.2 Preparations for flight are completed |
| | 1.3 EBS defects are reported |
| 2 Operate an EBS | 2.1 EBS is fitted in accordance with equipment instructions |
| | 2.2 EBS purging techniques are employed |
| | 2.3 Breathing techniques are employed during ascent |
| | 2.4 EBS malfunctions are responded to |
| 3 Complete EBS post-operational procedures | 3.1 EBS after-use inspection is conducted |
| | 3.2 EBS after-flight defects are reported |
| | 3.3 EBS equipment is stowed in appropriate storage |

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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|--------------------------------------|--|
| Pre-flight inspection must include: | <ul style="list-style-type: none">• leaking• visible signs of damage |
| EBS purging techniques must include: | <ul style="list-style-type: none">• blow-out• purge button• combination of blow-out and purge button |
| Malfunctions must include: | <ul style="list-style-type: none">• flooding (continual flow)• free flow |

- out of air

Unit Mapping Information

This unit replaces and is equivalent to AVIF2015A Utilise emergency breathing system.

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 AVIF2015 Utilise emergency breathing system

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:

- adapting to differences in equipment and operating environment in accordance with standard operating procedures
- communicating effectively with others
- completing relevant documentation
- conducting emergency breathing system (EBS) malfunction and defect management and reporting procedures
- conducting flight preparation procedures
- conducting inspection of EBS after use including reporting defects, and pack up
- conducting pre-flight inspection of EBS including reporting defects
- identifying and correctly using relevant equipment
- implementing contingency plans
- implementing EBS operating procedures
- implementing work health and safety (WHS)/occupational health and safety (OHS) procedures and relevant regulations
- modifying activities depending on workplace contingencies, situations and environments
- monitoring and anticipating operational problems and hazards and taking appropriate action
- monitoring work activities in terms of planned schedule
- performing safety procedures for breathing compressed air underwater
- performing underwater breathing techniques
- reading, interpreting and following relevant instructions, regulations, procedures information and signs
- reporting and/or rectifying problems, faults or malfunctions promptly, in accordance with workplace procedures
- selecting and using required personal protective clothing and equipment conforming to industry and WHS/OHS standards
- working collaboratively with others
- working systematically with required attention to detail without injury to self, 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:

- EBS malfunctions and defects including their management and reporting procedures
- EBS operating procedures
- EBS pre- and post-use inspection procedures
- hazards associated with using EBS
- in a Defence context, relevant Defence Orders and Instructions
- manufacturer instructions for emergency breathing system equipment
- organisational defect reporting procedures
- problems that may occur when utilising emergency breathing systems and appropriate action that should be taken in each case
- regulations, legislation, organisational policy and procedures in relation to emergency breathing systems
- relevant WHS/OHS and environmental procedures and regulations
- risks that exist when utilising emergency breathing systems and related risk control procedures and precautions
- underwater breathing techniques
- workplace procedures for utilising emergency breathing systems.

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

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

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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