



Australian Government

AVIF0049 Utilise emergency breathing systems

Release: 1

AVIF0049 Utilise emergency breathing systems

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 emergency breathing systems (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 and completing post-operational procedures of an EBS.

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

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

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

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, and defects reported in accordance with workplace procedures |
| | 1.2 Preparations for flight are completed in accordance with workplace procedures |
| 2 Operate an EBS | 2.1 EBS is fitted in accordance with manufacturer instructions and workplace procedures |
| | 2.2 EBS purging techniques are employed in accordance with manufacturer instructions and workplace procedures |
| | 2.3 Safe breathing techniques are employed during ascent |
| | 2.4 EBS malfunctions are responded to in accordance with workplace procedures |
| 3 Complete EBS post-operational procedures | 3.1 EBS after-use inspection is conducted in accordance with manufacturer instructions and workplace procedures |
| | 3.2 EBS defects are reported in accordance with workplace procedures |
| | 3.3 EBS equipment is stowed in in accordance with workplace procedures |

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.

Non-essential conditions may be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to AVIF0039 Utilise emergency breathing systems.

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 AVIF0049 Utilise emergency breathing systems

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:

- conducting emergency breathing systems (EBS) malfunction and defect management and reporting procedures
- conducting inspection of EBS after use
- conducting pre-flight inspection of the EBS in accordance with manufacturer instructions and workplace procedures to assess for :
 - leaks
 - pressure
 - secure installation
 - visible signs of damage
- conducting purging techniques for EBS must include:
 - blow-out
 - combination of blow-out and purge button
 - purge button
- implementing contingency plans in the event of a malfunction, including:
 - free flow
 - out of air
- implementing EBS operating procedures
- performing safe underwater breathing techniques
- preparing for flight with EBS.

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:

- differences in EBS equipment and operating environments
- EBS malfunctions, defects and problems, including their management and workplace reporting procedures including:

- flooding (continual flow)
- free flow
- out of air
- EBS operating procedures including purging and underwater breathing techniques
- EBS pre- and post-use inspection procedures
- manufacturer instructions for EBS equipment
- regulations, workplace policies and procedures in relation to EBS
- risks and hazards that exist when utilising EBS and related risk control procedures and precautions.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations where it is appropriate to do so; where this is not appropriate, assessment must occur in simulated workplace operational situations that replicate 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
- applicable documentation, including workplace procedures, regulations, codes of practice and operation manuals
- relevant materials, tools, equipment and PPE currently used in industry.

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