



Australian Government

Department of Education, Employment and Workplace Relations

AVIF2015A Utilise emergency breathing system

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit Descriptor

This unit involves the skills and knowledge required to utilise emergency breathing systems (EBS) during underwater escape situations. Licensing, legislative, regulatory or certification requirements are applicable to this unit.

Application of the Unit

Application of the Unit

Work involves the application of safety and escape policies, regulations, protocols and procedures required to utilise EBS during underwater escape situations.

Use for ADF Aviation is to be in accordance with relevant Defence Orders and Instructions and applicable Civil Aviation Safety Authority (CASA) compliance.

Work is performed under limited supervision within organisational guidelines.

This unit of competency is nominally packaged at Certificate II.

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 an EBS for use | <ul style="list-style-type: none"> 1.1 EBS pre-flight inspection is conducted 1.2 Preparations for flight are completed in accordance with workplace procedures 1.3 EBS defects are reported in accordance with workplace procedures |
| 2 Operate an EBS | <ul style="list-style-type: none"> 2.1 EBS is fitted in accordance with established procedures 2.2 EBS purging techniques are employed 2.3 Breathing techniques are employed during ascent 2.4 EBS malfunctions are responded to in accordance with workplace procedures |
| 3 Complete EBS after flight procedures | <ul style="list-style-type: none"> 3.1 EBS after use inspection is conducted 3.2 EBS after flight defects are reported 3.3 EBS is packed up in accordance with workplace procedures |

Required Skills and Knowledge

REQUIRED KNOWLEDGE AND SKILLS

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

Required knowledge:

- Regulations, legislation, organisational policy and procedures in relation to emergency breathing systems
- In Defence context, relevant Defence Orders and Instructions
- Relevant OH&S and environmental procedures and regulations
- EBS operating procedures
- Underwater breathing techniques
- Hazards associated with the use of EBS
- EBS malfunctions and defects including their management and reporting procedures
- Defect reporting procedures of the organisation
- EBS pre- and post-use inspection procedures
- Workplace procedures for utilising emergency breathing systems
- Manufacturers instructions for emergency breathing system equipment
- Risks that exist when utilising emergency breathing systems and related risk control procedures and precautions
- Problems that may occur when utilising emergency breathing systems and appropriate action that should be taken in each case

Required skills:

- Demonstrate EBS operating procedures
- Perform underwater breathing techniques
- Conduct EBS malfunction and defect management and reporting procedures
- Conduct flight preparation procedures
- Perform safety procedures for breathing compressed air underwater
- Communicate effectively with others when utilising emergency breathing systems
- Read, interpret and follow instructions, regulations, procedures and other information relevant to utilising emergency breathing systems
- Complete documentation related to utilising emergency breathing systems
- Work collaboratively with others when utilising emergency breathing systems
- Adapt appropriately to cultural differences in the workplace, including modes of behaviour and interactions with others
- Promptly report and/or rectify any identified problems that may occur when utilising emergency breathing systems
- Implement contingency plans for unexpected events that may arise when utilising emergency

REQUIRED KNOWLEDGE AND SKILLS

breathing systems

- Apply precautions and required action to minimise, control or eliminate hazards that may exist when utilising emergency breathing systems
- Monitor and anticipate operational problems and hazards and take appropriate action
- Monitor work activities in terms of planned schedule
- Modify activities dependent on differing workplace contingencies, situations and environments
- Work systematically with required attention to detail without injury to self, others or damage to goods or equipment
- Adapt to differences in equipment and operating environment in accordance with standard operating procedures
- Select and use required personal protective clothing and equipment conforming to industry and OH&S standards
- Implement OH&S procedures and relevant regulations
- Identify and correctly use emergency breathing system equipment

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:
 - the underpinning knowledge and skills
 - conducting pre-flight inspection of EBS including reporting of defects
 - operating EBS including purging techniques, breathing techniques and responding to EBS malfunctions
 - conducting inspection of EBS after use including reporting of defects, and pack up

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.

- | | |
|---|--|
| Defects may include: | <ul style="list-style-type: none"> • visible signs of damage • leaking |
| EBS purging techniques may include: | <ul style="list-style-type: none"> • blow-out • purge button • combination of blow-out and purge button |
| Malfunctions may include: | <ul style="list-style-type: none"> • out of air • free flow • flooding (continual flow) |
| Dependent 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 • standard operating procedures • manufacturers instructions |
| Information/documents may include: | <ul style="list-style-type: none"> • relevant sections of Civil Aviation Safety Regulations and Civil Aviation Orders • in Defence context, relevant Defence Orders and Instructions • operations manuals • workplace procedures and instructions and job specification • induction and training materials |
| Applicable regulations and legislation may include: | <ul style="list-style-type: none"> • 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 |
| Performance includes tolerances specified in either of: | <ul style="list-style-type: none"> • relevant licence and aircraft requirements of the Civil Aviation Safety Authority such as: <ul style="list-style-type: none"> • Day VFR syllabus • Manual of Standards • relevant defence documentation such as: <ul style="list-style-type: none"> • Defence Orders and Instructions • approved curricula and training documentation |

Unit Sector(s)

Not applicable.

Competency field

Competency Field F - Safety Management