



Australian Government

AVIF2014 Undertake aircraft underwater escape and survival

Release: 1

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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 undertake aircraft underwater escape and survival, in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes preparing for aircraft ditching, undertaking evacuation from an aircraft, conducting rescue recovery process, and controlling survival hazards.

This unit addresses aviation non-technical skill requirements (mental, social and personal-management abilities) for flight crews and passengers, 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 and Instructions.

Pre-requisite Unit

Not applicable.

Competency Field

F – Safety Management

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. |
|--|--|
| 1 Prepare for aircraft ditching | 1.1 Nature and extent of aircraft situation is communicated and acknowledgment is confirmed |
| | 1.2 Personal items within the cabin are secured prior to ditching |
| | 1.3 Restraint devices and survival equipment are checked, fastened and secured prior to ditching |
| | 1.4 Primary and secondary egress routes, exits and equipment are located |
| | 1.5 Brace position is adopted |
| 2 Undertake evacuation from an aircraft | 2.1 Spatial orientation is conducted |
| | 2.2 Egress points are located |
| | 2.3 Exits are jettisoned and cleared |
| | 2.4 Restraint devices are released |
| | 2.5 Aircraft is egressed |
| | 2.6 Surface is cleared |
| 3 Conduct rescue recovery process | 3.1 Safety equipment is deployed in accordance with workplace procedures |
| | 3.2 Position indicating and signalling devices are deployed |
| | 3.3 Rescue recovery techniques are applied |
| 4 Control survival hazards | 4.1 Potential hazards are identified and controlled |
| | 4.2 Swimming techniques with a life jacket are applied |
| | 4.3 Hypothermia management techniques are employed |
| | 4.4 Raft boarding and righting techniques are employed |
| | 4.5 Emergency supplies and equipment are managed |

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.

Restraint devices must include one or more of the following:

- flight crew harnesses and restraint devices
- operational contingency loading equipment
- passenger seatbelts

Survival equipment must include one or more of the following:

- emergency breathing system
- life jackets

Surface clearing must include:

- splashing the surface to clear oil/fuel

Safety equipment must include:

- flares
- life jackets
- life rafts
- position locating beacons
- strobe lights

Position indicating and signalling devices must include:

- flares
- position locating beacons
- strobe lights

Rescue recovery techniques must include one or more of the following:

- hoisting
- rescue vessel

Potential hazards must include one or more of the following:

- cold shock
- environment
- sea state
- weather

Swimming techniques with a life jacket must include:

- group
- single

Hypothermia management techniques must include:

- group help
- help position for single person heat retention

Emergency supplies and

- positioning equipment
- survival equipment

equipment must include:

Unit Mapping Information

This unit replaces and is equivalent to AVIF2014A Undertake aircraft underwater escape and survival.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=4725260a-0af3-4daf-912b-ef1c2f3e5816>