



**Australian Government**

# **DEFSUR011 Survive at sea**

**Release: 1**

## DEFSUR011 Survive at sea

### Modification History

| Release | Comments                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | <p>This unit was released in DEF Defence Training Package release 1.0 and meets the Standards for Training Packages.</p> <p>This unit supersedes and is equivalent to DEFSU011B Survive at sea.</p> <ul style="list-style-type: none"><li>• Unit code updated</li><li>• Content and formatting updated to comply with new standards</li><li>• All PC transitioned from passive to active voice</li><li>• PC 1.2 revised</li></ul> |

### Application

This unit describes the skills required to survive at sea and the immediate measures that would need to be taken upon exposure to the water, including both surface and underwater swimming, treading water, rigging improvised and purpose flotation devices, and adopting heat-loss minimisation positions. It also covers the use of purpose survival craft and equipment, including water procurement, food procurement and emergency signalling devices.

This unit was developed for Defence personnel but may be relevant to others. The context of this competency would typically be when a ship is sunk or an aircraft is downed over water. The survivor can be on their own or in a group.

The skills and knowledge described in this unit must be applied within the legislative, regulatory and policy environment in which they are carried out. Organisational policies and procedures must be consulted and adhered to.

Those undertaking this unit would act autonomously, while performing concrete tasks, in a broad range of contexts which may be highly unpredictable.

No licensing, legislative or certification requirements apply to unit at the time of publication.

### Competency Field

Survival

## Elements and Performance Criteria

| ELEMENTS                                                                  | PERFORMANCE CRITERIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Elements describe the essential outcomes                                  | Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions section.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>1. Survive in the water</b>                                            | 1.1 Use surface and underwater swimming techniques to escape from dangerous situations.<br>1.2 Enter water from a height and then surface.<br>1.3 Assume heat-retaining positions in the water as an individual and in a group environment.<br>1.4 Use improvised flotation devices to supplement buoyancy.<br>1.5 Fit personal flotation device (PFD) and maintain buoyancy through manual techniques.                                                                                                                                                                                                                                                               |
| <b>2. Operate and maintain survival flotation craft and its resources</b> | 2.1 Deploy, inflate, right (upon inversion) and board survival flotation craft (multi-person or single-person life raft).<br>2.2 Escape from inside the survival flotation craft after inversion.<br>2.3 Rig survival flotation craft for protection from the elements and optimisation (or minimisation) of movement.<br>2.4 Inspect and maintain survival flotation craft throughout the survival period.<br>2.5 Manage survival resources.<br>2.6 Deploy and operate water and food procurement devices.<br>2.7 Operate signal equipment from the survival flotation craft.<br>2.8 Interpret and respond to recognition and response signals from search aircraft. |

## Foundation Skills

The foundation skills demands of this unit have been mapped for alignment with the Australian Core Skills Framework (ACSF). The following tables outline the performance levels indicated for successful attainment of the unit.

ACSF levels indicative of performance:

|              |   |   |   |   |         |   |   |   |   |             |   |   |   |   |                    |   |   |   |   |              |   |   |   |   |
|--------------|---|---|---|---|---------|---|---|---|---|-------------|---|---|---|---|--------------------|---|---|---|---|--------------|---|---|---|---|
| 1            | 2 | 3 | 4 | 5 | 1       | 2 | 3 | 4 | 5 | 1           | 2 | 3 | 4 | 5 | 1                  | 2 | 3 | 4 | 5 | 1            | 2 | 3 | 4 | 5 |
| Learning N/A |   |   |   |   | Reading |   |   |   |   | Writing N/A |   |   |   |   | Oral communication |   |   |   |   | Numeracy N/A |   |   |   |   |

#### Performance variables

|         |   |   |   |   |         |   |   |   |   |                 |   |   |   |   |                 |   |   |   |   |
|---------|---|---|---|---|---------|---|---|---|---|-----------------|---|---|---|---|-----------------|---|---|---|---|
| 1       | 2 | 3 | 4 | 5 | 1       | 2 | 3 | 4 | 5 | 1               | 2 | 3 | 4 | 5 | 1               | 2 | 3 | 4 | 5 |
| Support |   |   |   |   | Context |   |   |   |   | Text complexity |   |   |   |   | Task complexity |   |   |   |   |

Further information on ACSF and the foundation skills underpinning this unit can be found in the Foundation Skills Guide on the GSA website.

## Unit Mapping Information

This unit supersedes and is equivalent to DEFSU011B Survive at sea.

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6bdbab1e-11ed-4bc9-9cba-9e1a55d4e4a9>

Companion Volume implementation guides are found in VETNet -

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## Assessment Requirements for DEFSUR011 Survive at sea

### Modification History

| Release | Comments                                                                                                                                                                                                                                                                                        |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | <p>These Assessment Requirements were released in DEF Defence Training Package release 1.0 and meet the Standards for Training Packages.</p> <ul style="list-style-type: none"><li>Assessment Requirements created drawing upon specified assessment information from superseded unit</li></ul> |

### Performance Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the candidate must demonstrate evidence of performance of the following on at least one occasion.

- fitting personal floatation devices
- using duck dive technique
- swimming 30 metres in clothing
- treading water for a minimum of five minutes in clothing
- adopting the HELP for at least ten minutes
- rigging and using two different improvised flotation devices for at least five minutes each
- surviving at sea over three hours using a multi-person raft by:
  - rigging the drogue
  - rigging the canopy
  - rigging water procurement devices including solar stills and reverse osmosis machines, and producing at least 300 millilitre of water
  - bailing
  - inspecting the craft
- rigging and employing the following signalling devices from the survival craft:
  - heliograph – accurately illuminating a target at least 300 metres away
  - sea marker dye – deploying a sea marker dye effectively and safely using prevailing currents to optimise signature
  - flare – employing a signal flare effectively without threatening persons or survival equipment
- use surface and underwater swimming techniques including at least one of:
  - duck diving
  - swimming while clothed
  - treading water in location

- Deploy and operate water and food procurement devices including at least one of:
  - reverse osmosis machine
  - solar stills
  -

## Knowledge Evidence

Evidence required to demonstrate competence must satisfy all of the requirements of the elements and performance criteria. If not otherwise specified the depth of knowledge demonstrated must be appropriate to the job context of the candidate.

- aircraft response signals
- emergency signalling
- heat-retaining position
- improvised flotation techniques

## Assessment Conditions

Competency should be demonstrated over time in a range of situations that could be expected in a survival situation.

Competency must be assessed in a simulated workplace environment, with access to a suitable sea-survival area, buoyancy devices, signalling devices and life rafts. All aspects of competence must be tested as part of an unbroken continuum from entry into the water at the individual level to the boarding and conduct aboard a survival flotation craft.

Assessors must satisfy the NVR/AQTF mandatory competency requirements for assessors.

## Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6bdbab1e-11ed-4bc9-9cba-9e1a55d4e4a9>

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