



Australian Government

AVIW0041 Undertake helicopter aquatic rescue and recovery

Release: 1

AVIW0041 Undertake helicopter aquatic rescue and recovery

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 an aircraft aquatic rescue and recovery in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes preparing and responding to aquatic rescue incidents from a helicopter, assessing the rescue scene, and developing aquatic rescue plans. It also includes gaining access and performing an aquatic rescue of a patient, recovering the patient, and concluding the aquatic rescue.

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

W – Equipment and Systems Operations

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 and respond to rescue | 1.1 Operation and task information is obtained from communications centre, briefing from supervisor or other sources |
| | 1.2 Rescue equipment and resources are identified and selected based on task information received |
| | 1.3 Personal protective equipment and clothing is selected based on the nature of the rescue operation |
| | 1.4 Additional details on the nature of the rescue received en route is discussed with rescue team members |
| | 1.5 Anticipated situational and environmental hazards are discussed with rescue team members and incorporated into the rescue plan |
| 2 Assess rescue scene | 2.1 Observations are made to determine the location, number, condition and position of survivor |
| | 2.2 Risk assessment on situational and environmental hazards is conducted and control measures applied to ensure safety of self and others |
| | 2.3 Additional personnel or specialist equipment based on risk assessment is requested via the communications centre in accordance with workplace procedures |
| | 2.4 Personal capabilities and limitations of self and other team members are considered in the development of the rescue plan |
| 3 Develop aquatic rescue plans | 3.1 Rescue and recovery techniques suitable to the patient condition, location and aquatic environment are identified |
| | 3.2 Primary and alternate rescue plans are developed based on situational risk assessment, identification of appropriate rescue and recovery techniques and consultation with other rescue team members |
| | 3.3 Appropriate equipment and resources are selected to perform aquatic rescue and recovery as identified by the rescue plan |
| | 3.4 Alternate rescue plans are implemented when required |
| 4 Gain access and perform aquatic rescue of patient | 4.1 Communication with team members is maintained during rescue in accordance with workplace procedures |

- 4.2** Patient is positioned to assist in rescue, recovery and management of the patient
 - 4.3** Rescuer is appropriately positioned to perform a rescue or recovery where required by the rescue plan
 - 4.4** Aquatic rescue techniques and equipment are deployed to gain access to patient as identified in the rescue plan
- 5 Recover patient**
 - 5.1** Aquatic rescue plan is implemented, patient is recovered by using appropriate rescue and recovery techniques and equipment in accordance with workplace procedures
 - 5.2** Patient is secured in aircraft in accordance with workplace procedures
- 6 Conclude aquatic rescue**
 - 6.1** Equipment is recovered, cleaned and maintained in accordance with manufacturer guidelines and workplace procedures
 - 6.2** Debrief is conducted in accordance with workplace procedures
 - 6.3** Post-incident documentation is completed in accordance with own role requirements and 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 AVIW0003 Undertake helicopter aquatic rescue and recovery.

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 AVIW0041 Undertake helicopter aquatic rescue and recovery

Modification History

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria and range of conditions on at least one occasion and includes:

- anticipating, identifying and mitigating aquatic rescue hazards and risks
- applying appropriate swimming techniques to escape hazards
- determining and applying appropriate rescue and recovery techniques to use according to the incident
- managing changes in survivors' condition
- informing relevant personnel of incident progress
- interacting with other members of the rescue team, survivor and others
- selecting aquatic rescue equipment and resources appropriate to incident type
- working as part of a team and supporting others in an aquatic rescue operation.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all the requirements of the elements and performance criteria and includes knowledge of:

- advantages and disadvantages of aquatic rescue and recovery methods.
- behaviour of survivors in aquatic environments
- communication techniques used during aquatic rescue operations
- composition of aquatic rescue teams, and roles and responsibilities of rescue team members
- environmental considerations, including:
 - eddies
 - other hydrological features
 - rips and currents
 - swell conditions
- first aid hazards and risks associated with aquatic rescues and recoveries, including:
 - circum-rescue collapse
 - hypothermia
 - spinal injuries

- potential contaminants in water and their impact on the rescuer and survivor
- relevant legislation, and workplace policies and procedures to enable safe conduct of aquatic rescue and recovery activities
- signs and symptoms of operational stress in self and others and reporting to appropriate support personnel.

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 other simulations
- applicable documentation, including workplace procedures, regulations, codes of practice and operation manuals
- relevant and appropriate materials, tools, equipment and personal protective equipment (PPE) currently used in industry.

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