



**Australian Government**

# **AVIW2031 Be airborne extracted using suspended extraction equipment**

**Release: 1**

# **AVIW2031 Be airborne extracted using suspended extraction equipment**

## **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 be airborne extracted using suspended extraction equipment, in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes applying aircraft safety procedures, preparing for suspended extraction, and extracting using suspended extraction equipment.

This unit addresses aviation technical skill requirements (physical, mental and task-management abilities) related to equipment and system operations of flight or ground operations personnel, 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 as a single operator or within a team 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, Instructions, Publications and Regulations.

## **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.

- |  |  |
|--|--|
| <b>1 Apply aircraft safety procedures</b>              | <p>1.1 Dress and equipment is secured for operating in and around a helicopter</p> <p>1.2 Helicopter is approached, entered and exited in a safe manner in accordance with workplace procedures and/or aircrew instructions</p> <p>1.3 Individual seating is occupied and restraint devices are applied</p> <p>1.4 Identified hazards are communicated to team members</p> <p>1.5 Aircrew or safety officer instructions are followed</p> <p>1.6 Environmental conditions and alternative routes to/from helicopter are identified</p>   |
| <b>2 Prepare for extraction by suspended equipment</b> | <p>2.1 Extraction by suspended equipment instructions are received and confirmed as required</p> <p>2.2 Workplace procedures, work health and safety (WHS)/occupational health and safety (OHS) requirements and safety control measures are applied</p> <p>2.3 Operational and individual extraction equipment including personal protective equipment (PPE) is selected and fitted, in accordance with nature of recovery activity being undertaken and workplace procedures</p> <p>2.4 Damage to operational, individual extraction and safety equipment is reported and remedial action is taken in accordance with workplace procedures</p> |
| <b>3 Extract by suspended equipment</b>                | <p>3.1 Extraction point is identified and attended in accordance with instructions</p> <p>3.2 Individual equipment checks are conducted in accordance with workplace procedures</p> <p>3.3 Individual extraction equipment is secured to recovery equipment in accordance with workplace procedures</p> <p>3.4 Security device is attached to individual and operational</p>   |

- equipment in accordance with workplace procedures
- 3.5 Suspended equipment is used to ascend and aircraft is emplaned in accordance with supervisor or aircrew instructions
  - 3.6 Extraction and operational equipment are monitored for stability during extraction
  - 3.7 Verbal and non-verbal communications are maintained
  - 3.8 Aircraft emergency and suspended extraction contingency procedures are implemented as required

## 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.

- Hazards must include one or more of the following:
- buildings
  - dust
  - livestock
  - masts/aerials
  - native fauna
  - poor visibility
  - public
  - terrain
  - trees
  - vehicles
  - weather conditions
  - wire/power lines/fences
- Environmental conditions must include:
- climate and weather variations
  - geographical and geological variations including sloping and unstable ground
  - variations due to vegetation and urban structures
  - ground conditions including dust and other particles
- Aircraft emergency and suspended extraction
- aborted operation
  - aircraft collision

contingency procedures must include one or more of the following:

- aircraft crash landing
- aircraft fire
- aircraft malfunction prior to take-off
- collision with others or obstacles
- damaged or kinked rope
- emergency landing procedures
- engine failure over landing site
- extraction equipment caught in obstacles
- in a Defence context – procedures to evade hostile action against aircraft or self
- loss of visibility

Operational and suspended extraction equipment must include one or more of the following:

- casualty evacuation equipment
- casualty evacuation litter
- caving ladder
- commercial in-service rappelling harness
- communications equipment
- improvised tubular webbing harness
- mechanical friction device and lanyard
- military equipment relevant to airborne extraction operation
- rope attachment device (locking karabiner)
- search and rescue equipment
- winch

Personal protective equipment (PPE) must include:

- eye protection goggles
- footwear
- hearing protection
- helmet
- high visibility clothing
- life jacket
- personal lighting and beacons
- protective clothing
- rappelling gloves

Individual equipment safety checks must include:

- operational equipment
- harness and ascender
- personal protective equipment checks

Security device must include:

- chest ascender
- winch collar

Communications must include:

- interpersonal communications
- radio
- hand signals

## Unit Mapping Information

This unit replaces and is equivalent to AVIW2031A Be airborne extracted using suspended extraction equipment.

## Links

Companion Volume implementation guides are found in VETNet -

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