

DEFAD002A Assist in establishing and clearing a cargo drop zone

Release: 2



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Modification History

Release	TP Version	Comments
2	DEF12V2	Layout adjusted. No changes to content.
1	DEF12V1	Primary release.

Unit Descriptor

This unit covers the competency required to assist with setting up and closing a cargo drop zone capable of receiving container and/or platform air-drop loads from fixed wing aircraft, and clearing items from a cargo drop zone.

Application of the Unit

The number and size of loads to be air-dropped will vary depending on the operation and capabilities of the aircraft used, which will determine the size of the drop zone required. Removal of air-dropped loads from the drop zone requires the use of material handling equipment and vehicles. The operation of this equipment is not covered within this unit. Work is normally performed as part of a small team under supervision with limited decision making.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

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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. Where *bold italicised* text is used, further information is detailed in the Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

Elements and Performance Criteria

ELEMENT

PERFORMANCE CRITERIA

- Assist with establishing a cargo drop zone
- 1. **Assist with establishing a** 1.1 Tasks are received and confirmed with supervisor
 - 1.2 *Markers or signal devices* are set up in accordance with *workplace procedures*
 - 1.3 Appropriate personnel are notified of the readiness of the drop zone, using appropriate communication methods
- 2. Participate in operating a cargo drop zone
- 2.1 Deployment sequence and impact of load onto drop zone is observed in accordance with workplace procedures
- 2.2 Loads and associated equipment are inspected and abnormalities are reported to appropriate personnel in accordance with workplace procedures
- 2.3 Aerial delivery equipment is recovered in accordance with workplace procedures
- 2.4 *Air-dropped loads* are *recovered* in accordance with workplace procedures
- 3. Assist with closing a cargo drop zone
- 3.1 Appropriate *methods* are used to close drop zone in accordance with workplace procedures
- 3.2 Appropriate personnel are notified once drop zone has been closed

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Required Skills and Knowledge

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

Required Skills

- · communicate within the workplace
- · load vehicles and restraining loads
- manual lifting techniques
- operate navigation equipment
- operate organisational vehicles
- teamwork
- · use enterprise communications systems and procedures
- use material handling equipment
- use pyrotechnics and marking devices

Required Knowledge

- aircraft communications procedures
- air-drop load deployment sequence
- drop zone communication devices
- drop zone procedures
- map reading and navigation
- safety precautions for using pyrotechnics
- workplace work health and safety (WHS) requirements specific to drop zones

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Evidence Guide

Critical aspects for assessment and evidence required to demonstrate competency in this unit Assessment must confirm the ability to:

- · set up flares, lights and marker panels at a drop zone
- · communicate with the aircrew via radio
- safely recover an air-drop load in excess of 22 kg (50 lbs).

Consistency in performance

Competency should be demonstrated over time using a range of actual or simulated air-drop operations covering a range of air-drop types and contexts.

Context of and specific resources for assessment

Context of assessment

Competency should be assessed in a field environment.

Specific resources for assessment

Access is required to:

- equipment including:
- air-drop loads
- aerial delivery equipment
- material handling equipment
- communication equipment and devices
- suitable cargo drop zone to receive air-drop loads.

Guidance information for assessment

The use of simulated air-drop loads may be utilised for assessment when suitable aircraft are not available.

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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. Bold italicised wording in the Performance Criteria is detailed below.

Markers or signal devices	Heliograph mirrors		
may include:	• Lights		
	Marker panels		
	Pyrotechnics or flares		
	Raised angle markers		
	• Smoke		
	Tethered balloons		
Workplace procedures may	Australian Standards		
include:	• Briefs		
	Doctrinal pamphlet		
	Duty statements		
	Legislative requirements		
	Manufacturers' handbooks, industry specifications		
	and technical instructions		
	WHS regulations		
	Organisational policies and procedures		
	Procedure manuals		
	Relevant state/territory or federal legislation		
	Standard Operating Procedures		
	Technical and tactical procedures		
	Written or verbal orders		
Appropriate personnel may	Aircrew		
include:	Supervisor		
	Additional panels to code identifier		
Appropriate communication	T .: 11.1		
methods may include:	Extinguishing lightsRadio communications		
	D ' 1 '1 'C'		
	0 1		
Deployment sequence may	Deployment of load from aircraft		
include:	Deployment of extraction parachute		
	Deployment of main parachute		
Abnormalities may include:	Abnormal function of aerial delivery equipment		
	Air-dropped load not landing on intended point of		
	impact		
	Failure of aerial delivery equipment		
	Other unforseen faults/problems		

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Aerial delivery equipment	Containers
may include:	Load rigging equipment
	Parachute releases
	• Parachutes
	• Platforms
Recovery of aerial delivery	Manual handling procedures
equipment and air-dropped	Material handling equipment
<i>loads</i> may involve the use of:	• Vehicles
Air-drop loads may include:	• Free drop loads between 1.4Â kg (5Â lbs) - 35Â kg (77Â lbs)
	• Container loads between 22Â kg (50Â lbs) - 1Â 000 kg (2Â 200Â lbs)
	 Platform loads between 1Â 140Â kg (2Â 520Â lbs) - 19Â 040Â kg (42Â 000Â lbs)
Methods to close drop zone	Radio communications
may include:	Removal of code identifier
	• Smoke

Unit Sector(s)

Not applicable.

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