



Australian Government

DEFCM303B Rig and dispatch air-drop loads

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 prepare, rig and dispatch air-drop loads in support of ground activities, which may occur in a hostile or benign environment. Defence air dispatchers work as part of an air dispatch crew, often in conjunction with the crew of a supporting aircraft tasked for air-drop operations.

Application of the Unit

As agreed in the creation of this Training Package, applications for units transferred from the PUA00 Public Safety Training Package will be developed as part of continuous improvement plans, and taking into account the change in Unit of Competency format as detailed in templates for Streamlined Training Packages.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

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 Required Skills and Knowledge and/or the Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Rig container and platform for air-drop loads	<p>1.1 Hand and power tools are selected and used in accordance with <i>standard procedures</i>.</p> <p>1.2 <i>Cordage</i> is selected and used in accordance with standard procedures.</p> <p>1.3 <i>Aerial delivery equipment</i> is selected and used in accordance with standard procedures.</p> <p>1.4 <i>Parachutes</i> are selected and handled in accordance with standard procedures.</p> <p>1.5 Parachutes are attached in accordance with standard procedures.</p> <p>1.6 <i>Container</i> and <i>platform loads</i> are rigged as part of a crew, and in accordance with standard procedures.</p> <p>1.7 <i>Air-drop and air movement documentation</i> is compiled, used and distributed in accordance with standard procedures.</p>
2. Load and dispatch air-drop loads	<p>2.1 <i>Aircraft loading equipment</i> is operated in accordance with standard procedures.</p> <p>2.2 Aircraft <i>restraint devices</i> are operated in accordance with standard procedures.</p> <p>2.3 Stores and equipment are prepared for container and platform air-drop.</p> <p>2.4 Aircraft loading is completed as part of a crew and in accordance with standard procedures.</p> <p>2.5 <i>Air-drop loads</i> are safely and effectively dispatched from the aircraft in accordance with air-drop procedures.</p>

Required Skills and Knowledge

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

Required Skills

- complete documentation
- display initiative
- manage resources
- use hand and power tools
- use weighing devices (scales) and calculators

Required Knowledge

- airfield and aircraft discipline
- applicable air-drop publications
- cargo aircraft roles and capabilities
- classification for dangerous goods
- compiling air movements and air-drop documentation
- load preparation
- loading cargo aircraft
- WHS particular to rigging and loading air-drop loads
- responsibilities of an air dispatch crew member in flight
- rigging container loads
- rigging platform loads
- types and methods of air-drop and their application
- uses, strengths, handling and storage of aerial delivery equipment

Evidence Guide

Critical aspects for assessment and evidence required to demonstrate competency in this unit

Assessment must confirm the ability to:

- interpret air logistic publications and comply with their requirements
- apply rated strengths and/or safe working stresses
- adhere to aircraft/airfield discipline requirements
- identify aircraft safety features, tie-down points and capacities
- load, restrain and manually dispatch compact and container air-drop loads from aircraft
- load and restrain container and platform loads in the aircraft for air-drop

Consistency in performance

Competency should be demonstrated over time in a range of workplace environments to ensure consistency of performance in a range of contexts.

Context of and specific resources for assessment

Context of assessment

Competency should be assessed in the workplace or in a simulated workplace environment.

Specific resources for assessment

Access to:

- air-drop capable aircraft and crew
- airfield/tarmac
- aerial delivery equipment
- loads
- parachutes
- restraining devices
- air-drop containers
- drop zone
- suitable rigging area
- mechanical handling equipment
- aircraft loading equipment
- drop zone support staff, equipment and vehicles
- personal safety clothing and equipment (protective flying dress, harnesses and hearing protection)
- aircraft communication equipment (headsets)

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.

<i>Standard procedures</i> may include:	<ul style="list-style-type: none"> • Australian Standards • defence instructions • doctrinal pamphlets • job guides and other publications • manufacturers' handbooks, industry specifications and technical instructions • work health and safety (WHS) regulations • organisational policies and procedures • procedure manuals • relevant local government by-laws • relevant state or federal legislation • routine orders • standing operating procedures • standing orders • written and verbal orders
<i>Cordage</i> may include:	<ul style="list-style-type: none"> • Braided nylon cord (1000 lb) • Ticket 8/7 cotton thread • Type III nylon (550 lb) • Type VIII nylon (3600 lb) • ¼ inch cotton webbing (80 lb) • ½ inch tubular nylon (1000 lb)
<i>Aerial delivery equipment</i> may include:	<ul style="list-style-type: none"> • Emergency restraint systems • Energy dissipating material (EDM/honeycomb) • Extraction systems • Free drop containers (Heli and Maxi box) • Parachute release devices • Platform components • Screws, nails and assorted expense items • Straps and containers • Suspension slings • Timber (plywood sheets and Oregon lengths) • Type V lashings, 10,000 lb devices
<i>Parachutes</i> may include:	<ul style="list-style-type: none"> • P1, C1 • G12D • G11A/B/C • 68 inch pilot • 15/22/28 ft extraction

<i>Container loads</i> may include:	<ul style="list-style-type: none"> • A7A compact • A21 container • A22 container • Heli Obox • Maxi box • Rope compact
<i>Platform loads</i> may include:	<ul style="list-style-type: none"> • Combat Expendable Platform (CEP) • Metal Framed Platform (MFP) • Type V platform
<i>Air-drop and air movement documentation</i> may include:	<ul style="list-style-type: none"> • Container load data inspection sheet • Dangerous goods documentation • Heavy drop load data inspection sheet • ST 133 cargo mail manifests • PY 104 passenger manifests
<i>Aircraft loading equipment</i> may include:	<ul style="list-style-type: none"> • Buffer boards • Centre Vertical Restrain system (CVR) • JURY strut DHC-4 • MHE • RAMP jack C130 • WHEEL chocks
<i>Restraint devices</i> may include:	<ul style="list-style-type: none"> • CGU1B • DACRON lashings • MB1 and MB2 tie-down devices • 10 000 lb and 25 000 lb tie-down chains
<i>Air-drop loads</i> may include:	<ul style="list-style-type: none"> • Methods: <ul style="list-style-type: none"> • door loads • wing loads • gravity loads • extracted loads • Types: <ul style="list-style-type: none"> • free drop • high velocity • low velocity

Unit Sector(s)

Not applicable.

Corequisite Unit/s**Co-requisite Unit/s** Nil