



Australian Government

DEFAD001A Rig and hook up loads during rotary wing external lift operations

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 in the preparation and conduct of single and multi point hook ups of external lift loads to rotary wing aircraft.

Application of the Unit

This unit applies to personnel working within teams under direct supervision and requires individuals to follow set methods and procedures, using some discretion and judgement. Work must be completed with a high degree of accuracy and attention to detail to avoid errors which could have disastrous consequences. External loads may vary in size and weight and will be dependent on the capabilities of the helicopter being used to lift the load.

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 Range Statement. Assessment of performance is to be consistent with the Evidence Guide.

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare loads for external lift	1.1 Task details are received and confirmed with supervisor 1.2 External lift loads are assessed to identify preparation requirements 1.3 External lift loads are prepared in accordance with workplace procedures
2. Prepare for hook up operations	2.1 Individual tasks are received and confirmed with supervisor 2.2 Hook up procedures are confirmed with supervisor 2.3 Hook up site is prepared in accordance with workplace procedures 2.4 Appropriate safety equipment is selected and used during hook up operations
3. Hook up loads for external lift	3.1 Communication is maintained with supervisor for duration of hook up operations 3.2 Aircraft is earthed to discharge static electricity in accordance with workplace procedures, prior to attaching loads 3.3 External loads are hooked up to rotary wing aircraft in accordance with supervisor directions and organisational procedures 3.4 Successful hook up is communicated to supervisor and site is cleared 3.5 Incident/emergency procedures are followed in the event of a malfunction
4. Maintain aerial delivery equipment	4.1 Aerial delivery equipment is inspected in accordance with workplace procedures 4.2 Operator level maintenance is carried out in accordance with workplace procedures 4.3 Faulty equipment is reported and replaced in accordance with workplace procedures

Required Skills and Knowledge

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

Required Skills

- communicate within the workplace
- interpret workplace manuals and publications
- select and use appropriate equipment
- teamwork

Required Knowledge

- aircraft/airfield discipline
- capabilities of organisational helicopters
- duties of team members when conducting hook up operations
- load preparation requirements
- work health and safety (WHS) considerations when working with helicopters

Evidence Guide

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

Assessment must confirm the ability to:

- prepare loose and packaged items for lift
- select and use appropriate personal protective equipment during hook up operations

Consistency in performance

Competency should be demonstrated over time using a range of external lift loads that the individual may encounter during the normal course of their work.

Context of and specific resources for assessment

Context of assessment

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

Specific resources for assessment

Access is required to:

- equipment including:
- rotary wing aircraft and crew
- load items
- aerial delivery equipment
- safety equipment
- suitable area to conduct hook up operations

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>External lift loads</i> may include:	• Loose items • Packaged equipment and stores • Vehicles
<i>Preparation</i> may include:	• Packaging equipment • Rigging loads • Securing loose items • Selection and use of aerial delivery equipment, threads and cordages
<i>Workplace procedures</i> may include:	• Australian Standards • 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
<i>Appropriate safety equipment</i> may include:	• Personal protective equipment including: • helmet • goggles • gloves • protective clothing • static probe
<i>Communication</i> may include:	• Hand signals • Radio communications • Verbal communications
<i>Malfunctions</i> may include:	• Aircraft malfunction • Damage to load/aerial delivery equipment during hook up operations • Failure to attached load correctly
<i>Aerial delivery equipment</i>	• Cordage and webbing

may include:	• Containers and nets • Slings • Swivels
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Unit Sector(s)

Not applicable.