



**Australian Government**

**Department of Education, Employment and Workplace Relations**

# **PUADEFAD001A Rig and hook up loads during rotary wing external lift operations**

**Revision Number: 1**

## **PUADEFAD001A Rig and hook up loads during rotary wing external lift operations**

### **Modification History**

Not applicable.

### **Unit Descriptor**

#### **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**

#### **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

Employability Skills	This unit contains employability skills.
Pre-requisite Unit/s	Nil

## 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.
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## Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare loads for external lift	<ul style="list-style-type: none"><li>1.1 Task details are received and confirmed with supervisor</li><li>1.2 <b>External lift loads</b> are assessed to identify <b>preparation</b> requirements</li><li>1.3 External lift loads are prepared in accordance with <b>workplace procedures</b></li></ul>
2. Prepare for hook up operations	<ul style="list-style-type: none"><li>2.1 Individual tasks are received and confirmed with supervisor</li><li>2.2 Hook up procedures are confirmed with supervisor</li><li>2.3 Hook up site is prepared in accordance with workplace procedures</li><li>2.4 <b>Appropriate safety equipment</b> is selected and used during hook up operations</li></ul>

**ELEMENT**

**PERFORMANCE CRITERIA**

**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

### 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
- occupational health and safety (OH&S) considerations when working with helicopters

## Evidence Guide

### 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.

## **EVIDENCE GUIDE**

### **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

### 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.

#### External lift loads may include

Loose items  
Packaged equipment and stores  
Vehicles

#### Preparation may include

Packaging equipment  
Rigging loads  
Securing loose items  
Selection and use of aerial delivery equipment, threads and cordages

#### Workplace procedures may include

Australian Standards  
Briefs  
Doctrinal pamphlet  
Duty statements  
Legislative requirements  
Manufacturers' handbooks, industry specifications and technical instructions  
OH&S 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 safety equipment may include

Personal protective equipment including:

- helmet
- goggles
- gloves
- protective clothing
- static probe

#### Communication may include

Hand signals  
Radio communications  
Verbal communications

#### Malfunctions may include

Aircraft malfunction  
Damage to load/aerial delivery equipment during hook up operations  
Failure to attached load correctly

## **RANGE STATEMENT**

**Aerial delivery equipment  
may include**

Cordage and webbing  
Containers and nets  
Slings  
Swivels

## **Unit Sector(s)**

Not applicable.

## **Corequisite Unit/s**

**Co-requisite Unit/s** Nil