



Australian Government

Department of Education, Employment and Workplace Relations

PUADEFCM007B Marshal aircraft (Defence)

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

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This unit covers the competency required to marshal **aircraft** during start/shutdown phases, and to direct aircraft movements as ground personnel using standard aircraft marshalling signals.

Marshalling is carried out under minimal supervision within organisational guidelines.

Application of the Unit

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The application of this unit in the workplace - the environments, complexities and situations involved - will be written during Phase II of the Review of the PUA00 Public Safety Training Package.

This text will be useful for the purposes of job descriptions, recruitment advice or job analysis; where possible, it will not be too job specific to allow other industries to import it into other Training Packages, where feasible.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Prerequisite Unit/s Nil

Employability Skills Information

Employability Skills 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. Prepare for marshalling

- 1.1 **Arrival/departure information** is received and processed in accordance with organisational procedures
- 1.2 **Marshalling requirements for different aircraft type** are determined and requirements are clarified where required
- 1.3 Aircraft documentation is checked to verify serviceability status
- 1.4 **Personal protective equipment** is selected and fitted
- 1.5 Occupational health and safety (OH&S) requirements and recognised safety precautions are applied throughout the operation
- 1.6 Allocated **aircraft parking** position is confirmed
- 1.7 **Marshalling**, aircraft parking and **ancillary support equipment** is selected and checked for serviceability
- 1.8 Relevant documentation is completed in accordance with organisational procedures

2. Establish/disestablish aircraft parking position

- 2.1 Marshalling, aircraft parking, and ancillary support equipment is positioned and used in accordance with manufacturers' and organisational procedures
- 2.2 Movement on tarmac is conducted in a safe manner in accordance with **standard procedures**
- 2.3 Environmental factors are monitored to ensure safety is maintained

3. Marshal aircraft during start and shut-down procedures of aircraft systems

- 3.1 **Special circumstances/procedures during aircraft start** and **shut-down** are allowed for
- 3.2 **Standard marshalling signals** and/or communications are employed
- 3.3 Visual contact with the pilot, other aircrew and/or ground staff is maintained
- 3.4 Safety of self and other personnel within vicinity of propellers, engine intakes/exhausts during start and shut down is maintained
- 3.5 Personnel are directed to and from aircraft within prescribed entry and exit arcs
- 3.6 **Emergency drills** are completed in the event of an aircraft fire or other emergency, in accordance

4. Marshal aircraft during taxiing

with standard procedures

3.7 Aircraft is secured/unsecured in accordance with standard procedures

4.1 *Special circumstances/procedures during aircraft taxiing* are allowed for

4.2 Standard marshalling signals and/or communications are employed

4.3 Visual contact with the pilot, other aircrew or ground staff is maintained

4.4 Safety distances between aircraft and ground personnel/obstructions are identified and maintained

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required Skills

- allocate and prioritise aircraft parking
- basic first aid
- basic firefighting
- conduct briefings/debriefings
- implement aircraft security, access and ordnance procedures
- use marshalling signals
- work in a team

Required Knowledge

- aircraft danger zones
- day and night marshalling signals
- effects of wind on aircraft
- marshalling, support and aircraft equipment selection and serviceability
- procedures in the event of an aircraft fire/accident and emergency
- restrictions imposed on aircraft in confined areas
- security, access and ordnance requirements
- tasking information

Evidence Guide

EVIDENCE GUIDE

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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 clearly and promptly use and execute correct marshalling signals in a safe manner; to ensure the safety of ground personnel and aircrew; and to implement the correct procedures in the event of an aircraft emergency or accident.

Assessment must also confirm the ability to marshal aircraft by day and night.

Consistency in performance

Competency should be demonstrated over time to allow the individual to be assessed in a number of realistic operational scenarios.

Context of and specific resources for assessment

Context of assessment

Competency must be assessed in the context of using live aircraft and should replicate an operational flight line environment.

The marshaller should be exposed to the extremes of the operational environment where a person is under the stress of marshalling a live aircraft while other aircraft are operating in close proximity.

Assessment must be conducted in an operational environment or simulated operational environment by day and night.

Specific resources for assessment

Access to aircraft with engines running and propellers/rotors engaged, tarmac, personal protective equipment, marshalling equipment, aircraft parking equipment and ancillary support equipment.

Guidance information for assessment

Information that will assist or guide assessment will be written during Phase II of the Review of the PUA00 Public Safety Training Package.

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.

Aircraft may include	Fixed wing Rotary wing Other airborne vehicles
Arrival and departure information may include	Formalised tasking information Informal tasking information for action in accordance with localised procedures Informal information received via other means e.g. hand signals, phone, fax or radio communications regarding aircraft safety (for example hot brakes, fuel leak, security)
Marshalling requirements for different aircraft type may include	Access Security Ordnance
Personal protective equipment may include	Eye goggles Head protection Hearing protection Hi visibility clothing Protective boots Protective overalls Respiratory protection
Marshalling equipment may include	Signalling devices (day/night)
Aircraft parking equipment may include	Covers and intake inserts (bungs) Earthing leads Flags Magnetic pins Mechanical locking devices Tie-down devices

RANGE STATEMENT**Ancillary support equipment may include**

Wheel chocks
 Access/egress equipment
 External aircraft power facilities
 Fire extinguisher
 First aid kit
 Parking markers and barriers

Standard procedures may include

Defence Instructions
 Policy
 Routine Orders
 Standing Operating Procedures
 Standing Orders
 Written and verbal orders

Special circumstances/ procedures during aircraft start may include

Negative rotation
 Power sources
 Safety requirements, for example fire bottle attendants

Special circumstances/ procedures during aircraft shut-down may include

Aircraft with droop stops
 Aircraft with no prop/rotor brake
 Installation of locking, protection or security devices

Emergency drills may include

Basic fire fighting
 Basic first aid
 Crowd control
 Notifying emergency service/s

Special circumstances/ procedures during aircraft taxiing may include

Undercarriage lock pins
 Safety pin requirements for aircraft carrying ordnance

Standard marshalling signals include

The standard Australian Defence Force (ADF) marshalling signals

Unit Sector(s)

Not applicable.

Corequisite Unit/s

Co-requisite Unit/s Nil