



Australian Government

Department of Education, Employment and Workplace Relations

PUAFIR402B Supervise specialist response to aviation incidents

Revision Number: 1

PUAFIR402B Supervise specialist response to aviation incidents

Modification History

Not applicable.

Unit Descriptor

Unit Descriptor

This unit covers the competency to supervise the initial response to an aviation incident by a specialised aviation firefighting team.

Application of the Unit

Application of the Unit

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

PUAFIR205B Respond to aviation incident (specialist)

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. Respond to aircraft emergencies	1.1 ICAO/CASA requirement/recommendations are determined when attending an aircraft accident or incident
2. Determine aircraft size-up	2.1 Size-up strategy is determined for principal aircraft attack based on factors such as type of emergency, persons on board, type of cargo and pilot's intentions 2.2 Size-up strategy is communicated to the firefighting team 2.3 Size-up is based on aircraft type, terrain, wind, weather, location, vehicles and the personnel immediately available
3. Control an aircraft incident or accident	3.1 Fireground tactics are applied and continually monitored and communicated in accordance with aviation agency procedures 3.2 Firefighting teams and incident conditions are monitored to maintain the safest possible working conditions at the scene 3.3 Changing conditions are communicated to supervisor and team members
4. Identify hazards and special risks	4.1 Hazards and special risks are identified and continually monitored and communicated in accordance with aviation agency practices and procedures
5. Supervise the rescue and evacuation of persons on board aircraft	5.1 Passenger and crew evacuation and movement to a safe area are coordinated with the Aerodrome Emergency Plan 5.2 Removal of injured persons and medical assistance are practised in accordance with aviation agency operational practices and procedures 5.3 The operation of extrication equipment is monitored 5.4 Aircraft facilities, equipment or structures removed or damaged during rescue operations are recorded in accordance with Air Navigation Regulations 5.5 All persons on board are accounted for and information communicated to DISPLAN coordinator with Civil Aviation Regulations

ELEMENT**PERFORMANCE CRITERIA****6. Preserve aircraft and scene**

- 6.1 Damage to the aircraft is noted and recorded
- 6.2 Security of the aircraft and scene is maintained

7. Liaise with *emergency services*

- 7.1 Incident is handed over to the Senior DISPLAN coordinator when incident management is complete and it is safe to do so in accordance with Aviation Safety Organisations

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

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

Required Skills

applying aviation strategy, tactics and techniques

identifying of hazards

demonstrating aerodrome operating procedures

applying size-up strategies

applying rescue strategies and tactics

demonstrating incident management

techniques/strategies/procedures

Required Knowledge

aircraft details:

- construction
- control surfaces
- engines

identification of hazards:

- fuel systems
- hydraulic systems
- electrical systems
- pyrotechnics
- armaments and other hazards for military aircraft

operation of emergency exits

aerodrome operating procedures

fireground strategies and tactics for aircraft incidents

security of scene

Evidence Guide

EVIDENCE GUIDE

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

It is essential for this unit that competence be demonstrated in control of firefighting tactics and strategies, appropriate selection and use of firefighting equipment, firefighting agent and protective clothing under response conditions

Implement actions in compliance with standard operating procedures and regulatory requirements

Consistency in performance

Evidence should be gathered over a period of time in a range of actual or simulated workplace environments

Context of and specific resources for assessment

Context of assessment

On the job and in a range of simulated aviation fires and incidents

Specific resources for assessment

access to specialised aviation firefighting equipment
 appropriate protective clothing and equipment
 access to an environmentally sound training ground incorporating aircraft simulations for practical training
 appropriate fuels for burning
 access to an airport
 access to an aircraft
 agency regulations
 appropriate fire extinguishment mediums

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.

Aviation emergencies must include

Aircraft fires including:
 engine fires
 wheel fires
 auxiliary power unit fire
 internal fires
 fires of electrical origin
 re-fuelling fires
 Aircraft collisions including:
 aircraft on the ground
 structures on and off the airport
 Aircraft equipment malfunction including:
 brake failure
 tyre failure
 hydraulic
 bomb warnings
 explosion on aircraft
 fuel spill
 military aircraft
 crash on water
 under-carriage observations
 smoked filled fuselage
 medical emergencies
 pilot incapacity

Aviation emergency response conditions must include

Response time criteria
 Type of fire:
 hydrocarbon fuel
 metal
 armaments

RANGE STATEMENT

	Type of aircraft: aircraft knowledge and familiarisation airport topography airport operations: category aircraft movements aerodrome emergency plans area of response
Size-up considerations and reports may include	type of incident involvement tactical approach criteria: wind weather terrain aircraft type vehicle and personnel location number of passengers on board oral messages by radio
Hazards associated with aircraft emergencies may include	location of fuel systems oxygen cylinders and supply systems electrical systems pyrotechnics hazardous materials hydraulic systems military aircraft: armament special fuels navigation systems ejection systems arresting systems radioactive materials Engines:

RANGE STATEMENT

	turbine
	propeller
	rotors
	aircraft wheel fire hazards
	evacuation slides
	military aircraft
	arresting systems
Protection of aircraft must may include	Air Navigation Regulations
	Civil Aviation Regulations
	Aerodrome Emergency Plans
	ICAO Standards and Recommended Practices
	CASA Regulatory Arrangements and Standards
Emergency services liaison may include	ICS Management systems
	Aerodrome Emergency Plans
	MOAs
Resources must include	personnel
	extinguishing mediums:
	extinguishing powder, water and foam
	protective clothing
Other resources may include	dry sand
	extinguishing gas
	vaporising liquid
Aircraft emergency response planning must include	type of fire:
	hydrocarbon fuel
	metal
	armaments
	aircraft knowledge and familiarisation
	airport topography
	airport operations
	airport emergency plans
	tactical approach:

RANGE STATEMENT

wind
terrain
aircraft type
vehicle and crew
location

Unit Sector(s)

Not applicable.

Corequisite Unit/s

Co-requisite Unit/s	Nil
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