Australian Government

Department of Education, Employment and Workplace Relations

PUAAMS001A Work in an aviation environment

Release: 1

INDUSTRY
SKILLS
COUNCILS
Creating Australia's Future

Modification History

Not Available

INTRODUCTION

Unit Name   Work in an aviation environment

Unit Code   PUAAMS001A

Unit Descriptor This unit covers the competency to work effectively as a crew member.

ELEMENT	PERFORMANCE CRITERIA
1. Work effectively as a member of a search and rescue crew	Functions and responsibilities are determined from policies and procedures
	Contact/call-out arrangements and requirements are determined from organisational documents and personal employment requirements
	Factors which impede or disqualify persons from performing safe and effective aircrew duties are determined from policies and procedures
	Communication equipment, terminology and procedures are utilised in accordance with policies, procedures and company operation's manuals to ensure safe and effective operations during flight
	In-flight performance is maintained in accordance with policies, procedures, and company operations manuals
2. Work safely in an aviation environment	Safety procedures for working in and around aircraft are determined from policies and procedures
	Cabin/load security and dangerous goods requirements are determined in accordance with policies and procedures
	appropriate manual handling strategies are applied when loading the aircraft in accordance with policies and procedures
	In-flight hazards are managed in accordance with policies and procedures, organisational operations manuals and pilot-in-command instructions

Government Skills Australia

3. Respond to aircraft emergency situations	Aircraft cabin, load and occupants are prepared for impact
	Firefighting equipment is used to protect occupants and the aircraft from fire
	Escape/evacuation plan is implemented in accordance with policies and procedures
	Emergency care is provided to injured occupants as required
	Life and health of survivors are supported and maintained
	Survival plan is implemented
4. Complete documentation	Manifests, load sheets and other pre-flight documents are completed in accordance with policies and procedures
	In-flight operations log is completed in accordance with policies and procedures
	Debriefing documents and other post flight reports are completed in accordance with policies and procedures

RANGE STATEMENT

An aircraft may include	A fixed wing or rotary wing aircraft engaged in search interception and escort

- stores dropping
- rescue or medical evacuation operations over land or sea by day or night

Safety procedures for working in and around aircraft may include	

- being familiar with aircraft
- appreciation of aircraft capabilities
- approaching rotary wing aircraft terrain-related issues

Search and rescue crew members may include	

- National Search and Rescue Manual
- Search and Rescue Manual for Civil Search and Rescue
- Unit Pilots and Dropmasters
- Search and Rescue Manual for Observers
- Civil Aviation Regulations (CARs) Civil Aviation Orders (CAOs)
- Aeronautical Information Publications (AIPs)
- En route Supplementary Australia – Emergency Section
- (ERSA)
- Applicable Aircraft Flight Manual and Civil Search and
- Rescue Unit Operations manual
-

Escape/evacuation plan may include	

- evacuating personnel and equipment from the aircraft
-

Life is supported and maintained may include	

- aircraft components survival equipment
- natural materials being utilised to provide protection from environmental hazards to aid in location and to maintain the health of survivors
-

Survival plan may include	

- giving consideration to psychological
- physiological
- medial and environmental issues
-

Organisational documents may	

- emergency service pilots and procedures
- aircraft operator company operations manuals

Government Skills Australia

include	• and memoranda of understanding
	•
Factors which may impede or exclude safte performance may include	• physical physiological
	• psychological
	• pathological and psychosocial and may include
	• such things as motion sickness
	• poor eye sight
	• pregnancy fatigue
	• poor general health
	• drug and/or alcohol affected
The flight may include	• over-night deployment
	• international travel
	•
Personal requirements may include	• passports additional clothing
	• refreshments as required for long term/long distance
	• travel
	•
Communications equipment may include	• aircraft intercommunications equipment and portable radio transceivers
	•
Terminology and procedures may include	• standard aviation and agency specific terminology and procedures associated with Search and Rescue operations
	•
In-flight crew performance may be maintained by	• rotation/rest schedules prevention of motion sickness
	• duty reassignment or reallocation for people found unsuitable for certain tasks
	•
Safety procedures for working in and around aircraft may relate to	• aircraft propellers and blades refuelling operations
	• smoking loose articles danger areas
	• no step/push areas and airside security
	•
Dangerous goods may include	• Search and Rescue related pyrotechnics
	• weapons and ammunition
	• petroleum fuels
	•
In-flight hazards may include	• opening doors/windows moving around the aircraft operating near open doors loose articles in the cabin dispatching items
	• operating electronic equipment
	•

Government Skills Australia

Emergency care includes	• pre-hospital emergency care as described in workplace
	• emergency care qualifications which meet State and Territory OH&S requirements
	•
Firefighting equipment may include	• dry chemical powder vaporising liquid
	• carbon dioxide and foam extinguishers
	•
Survival equipment may include	• inflatable life-jackets inflatable life-rafts
	• survival kits
	• electronic location beacons
	•
Environmental hazards may include	• marine environments
	• extremes of heat and cold
	• dangerous creatures
	• hydration and nutrition limitations
	•
Physiological factors may include	• health and fitness
	• heat loss rates
	• hydration and nutrition
	• injury survival time
	• predictions
	•
Rescue factors may include	• predicted time to rescue rescue vehicle types
	• visibility and location of target rescue systems
	• rescue crew competence priority of survivors
	•
Pre/post-flight documentation may include	• search briefing and debriefing forms manifests
	• load sheets flight logs
	• post flight reports
	•

Government Skills Australia

EVIDENCE GUIDE

Critical aspects of evidence	Operate safely and effectively as a crew member in an aviation environment
Interdependent assessment of units	Pre-requisite units: • Nil Co-requisite units: • PUAAMS002A Search as a member of an air search team • PUATEA001A Work in a team • PUATEA004B Work effectively in a public safety organisation • PUATEA003A Lead, manage and develop teams
Underpinning knowledge	Evidence of: • a knowledge of aircraft accidental hazards and response an understanding of airside safety and aircraft safety • an understanding of appropriate air traffic control procedures and terminology • an understanding of appropriate aviation meteorology • an understanding of aviation technology and communication procedures • an understanding of manual handling hazards and techniques • an understanding of Search and Rescue functions and responsibilities
Underpinning skills	The ability to: • communicate information orally and in writing complete • Search and Rescue documentation • harnesses and emergency exits • operate aircraft doors • operate aircraft intercom systems • operate aviation survival equipment • operate firefighting equipment
Resource implications	An appropriate training location/venue and access to aircraft and survival equipment required for learning and assessment activities

Consistency in
performance

In order to assess these performance criteria it may be necessary for evidence to be collected over a period of time in a context of rescue operations

Context of assessment

Evidence can be collected on the job but may be undertaken in a simulation

KEY COMPETENCY LEVELS

Collect, Analyse & Organise Information	Communicate Ideas & Information	Plan & Organise Activities	Work with Others & in Teams	Use Mathematical Ideas & Techniques	Solve Problems	Use Technology
Level 1	Level 1	Level 2	Level 2	Level 1	Level 1	Level 2