



Australian Government

AVIF3005 Maintain the safety of people and aircraft

Release: 1

AVIF3005 Maintain the safety of people and aircraft

Modification History

Release 1. This is the first release of this unit of competency in the AVI Aviation Training Package.

Application

This unit involves the skills and knowledge required to maintain the safety of people and aircraft, in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes carrying out required safety procedures, managing safety risks and hazards, following flight crew directions, aiding and assisting passengers during an emergency, and carrying out administrative procedures.

This unit addresses aviation non-technical skill requirements (mental, social and personal-management abilities) related to safety management duties of flight operations personnel, and contributes to safe and effective performance in complex aviation operational environments.

Operations are conducted as part of recreational, commercial and military aircraft activities across a variety of operational contexts within the Australian aviation industry.

Work is performed independently or under limited supervision within a single-pilot or multi-crew environment.

Licensing, legislative, regulatory or certification requirements are applicable to this unit.

Use for Defence Aviation is to be in accordance with relevant Defence Orders, Instructions, Publications and Regulations.

Pre-requisite Unit

Not applicable.

Competency Field

F – Safety Management

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

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|---|--|
| 1 Carry out safety procedures | <ul style="list-style-type: none">1.1 Pre-take-off safety and security checks are conducted in accordance with regulatory requirements and workplace procedures1.2 Safety demonstrations and checks are conducted in accordance with regulatory requirements and workplace procedures1.3 Safety hazards are identified and are reported and/or acted on in accordance with risk management procedures and regulatory requirements1.4 Appropriate hazard mitigation strategies are determined and implemented in conjunction with other aircrew members, in accordance with risk management procedures and regulatory requirements |
| 2 Follow flight crew directions | <ul style="list-style-type: none">2.1 Instructions of senior flight crew are followed at all times2.2 Individual crew positions are taken during landing and take-off and as directed by flight crew2.3 Safety restraints and crew seating are used during landing, take-off and as directed by flight crew instructions, workplace procedures and safety regulations |
| 3 Aid and assist passengers during an inflight emergency | <ul style="list-style-type: none">3.1 Passengers are advised of hazardous conditions and potential emergencies at appropriate times, and related safety and emergency actions to take during flight3.2 In an emergency, passengers are advised of the nature of the emergency and the procedures and precautions to be followed3.3 Clear communication is established and maintained with passengers3.4 Passengers are aided during the emergency in accordance with regulatory requirements, flight crew instructions and workplace procedures3.5 Passengers are assisted as required during emergency |

		situations
	3.6	First aid and/or medical attention is applied as required, in conjunction with other crew members during an emergency situation
4 Carry out administrative procedures	4.1	Workplace administrative procedures related to flight safety are identified and interpreted
	4.2	Administrative procedures related to safety and emergency procedures and incidents are implemented in accordance with workplace and regulatory requirements
	4.3	All required aircraft safety documentation is completed and processed in accordance with workplace requirements

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Safety demonstrations for passengers must include use of one or more of the following items:	• aircraft intercom and communications equipment • defibrillator • escape devices • emergency lighting equipment • first aid kit and equipment • fire fighting equipment • lifejackets, life rafts, seat cushions • oxygen equipment including masks, fixed, portable • personal breathing equipment • restraint equipment • safety demonstration videos • safety instruction sheets • survival equipment
Types of inflight emergencies must include one or more of the following:	• aborted take-off • aircraft collision • aircraft ditching • cabin depressurisation

- disruptive passenger behaviour
- emergency landing
- explosion or fire on aircraft
- illness or injury amongst of passenger/(s) or crew
- loss of aircraft power
- malfunctioning aircraft equipment
- severe air turbulence
- smoke/fire in cabin
- unlawful interference with aviation

Unit Mapping Information

This unit replaces and is equivalent to AVIF3005B Maintain the safety of people and aircraft.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=4725260a-0af3-4daf-912b-ef1c2f3e5816>

Assessment Requirements for AVIF3005 Maintain the safety of people and aircraft

Modification History

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Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions on at least one occasion and include:

- adapting to differences in equipment and operating environment in accordance with standard operating procedures
- applying precautions and required action to minimise, control or eliminate identified hazards
- applying relevant legislation and workplace procedures
- communicating effectively with others
- completing relevant documentation
- identifying and correctly using relevant equipment
- implementing inflight emergency response procedures for:
 - aborted take-off
 - aircraft collision
 - aircraft ditching
 - cabin depressurisation
 - disruptive passenger behaviour
 - emergency landing
 - explosion or fire on aircraft
 - illness or injury of passenger/s or crew
 - loss of aircraft power
 - malfunctioning aircraft equipment
 - severe air turbulence
 - smoke/fire in cabin
 - unlawful interference with aviation
- implementing contingency plans
- implementing work health and safety (WHS)/occupational health and safety (OHS) procedures and relevant regulations
- modifying activities depending on workplace contingencies, situations and environments
- monitoring and anticipating operational problems and hazards and taking appropriate action
- monitoring work activities in terms of planned schedule
- operating electronic communications equipment to required protocol

- reading, interpreting and following relevant instructions, regulations, procedures, information and signs
- reporting and/or rectifying problems, faults and malfunctions promptly, in accordance with workplace procedures
- responding appropriately to cultural differences in the workplace
- selecting and using required personal protective equipment conforming to industry and WHS/OHS standards
- working collaboratively with others
- working systematically with required attention to detail without injury to self or others, or damage to goods or equipment.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements, performance criteria and range of conditions and include knowledge of:

- aviation operations, and regulatory standards and procedures for maintaining safety requirements during aircraft cabin operations
- basic knowledge of aviation medicine, the atmosphere and hypoxia
- cabin features, safety equipment and amenities for various types of aircraft:
 - aircraft intercom and communications equipment
 - defibrillator
 - escape devices
 - emergency lighting equipment
 - first aid kit and equipment
 - firefighting equipment
 - life jackets, life rafts, seat cushions
 - oxygen equipment including masks, fixed, portable
 - personal breathing equipment
 - restraint equipment
 - safety demonstration videos
 - safety instruction sheets
 - survival equipment
- hazard identification and risk control procedures and related regulatory requirements
- human factors and non-technical skills:
 - decision-making processes
 - principles of effective communication
 - situational awareness
 - threat and error management relevant to own role

- inflight emergency response procedures for:
 - aborted take-off
 - aircraft collision
 - aircraft ditching
 - cabin depressurisation
 - disruptive/unruly passenger behaviour
 - emergency landing
 - explosion or fire on aircraft
 - illness or injury among passengers or crew
 - loss of aircraft power
 - malfunctioning aircraft equipment
 - severe air turbulence
 - smoke/fire in cabin
 - unlawful interference with aviation
- principles of passenger and aircraft safety
- problems that may occur when maintaining safety requirements during aircraft cabin operations and appropriate action that should be taken in each case
- procedures to be followed during safety demonstrations and emergencies
- relevant aviation operational administrative procedures
- relevant customs, quarantine, equal opportunity and anti-discrimination regulations
- relevant WHS/OHS, hygiene and environmental procedures and regulations
- relevant sections of regulations pertaining to the integrated safety responsibilities and roles of aircrew
- risks that exist during aircraft flight and related risk control procedures and precautions.

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the *Standards for Registered Training Organisations* current at the time of assessment.

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Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or simulations
- acceptable means of simulation assessment
- applicable documentation including workplace procedures, regulations, codes of practice and operation manuals
- relevant materials, tools, equipment and personal protective equipment currently used in industry.

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