

AVI50516 Diploma of Aviation

(Flight Instructor)

– Gold course

Summary of Evidence included in portfolio “Summary table”

List here any evidence you have ticked, and/or other evidence you are providing for this unit of competency, so that your RTO assessor can refer to it in your portfolio, please ensure that your item numbers are consistent with that of your portfolio documentation.

Item no.	Unit of competency / Performance Criteria	Source of the Evidence	Description of Evidence	Date	Verified / Assessor Initial
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AVIF0004 Implement aviation risk management processes

Units of Competency

Modification History

Release 2. ISC upgrade - a statement relevant to Defence Aviation has been added to the Application of the unit.
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 implement aviation risk management processes, in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and National Operating standards.

It includes identifying, controlling, monitoring and reviewing the effectiveness of risk management processes as part of a safety management system (SMS).

Work involves managing the effects of uncertainty on objectives using an SMS within a variety of operational contexts within the Australian Aviation industry.

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

Work is performed independently or under limited supervision as a single operator or within a team environment. 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

See below

Resource

<https://training.gov.au/Training/Details/AVIF0004>

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. Non –essential conditions can be found in the Companion Volume Implementation Guide.

Organisational methods to identify hazards must include one or more of the following:	<ul style="list-style-type: none">• brainstorming• hazard reporting• historical occurrence data• internal/external safety reviews• monitoring operational activities• reviewing standards, procedures and systems• surveys and questionnaires
Workplace standards must include:	<ul style="list-style-type: none">• current Australian Standard (AS)/New Zealand Standard (NZS) International Standard Organization (ISO) risk management standard
Likelihood criteria must include:	<ul style="list-style-type: none">• rare• unlikely• possible• likely• almost certain
Consequence criteria must include:	<ul style="list-style-type: none">• negligible• minor• major• moderate• severe
Aviation risk must include one or more of the following:	<p>regulatory</p> <ul style="list-style-type: none">• customs, practices and conventions• documents, manuals and handbooks• legislation, regulations and policies• operating and user guides• standard operating procedures <p>hardware</p> <ul style="list-style-type: none">• aircraft• buildings, facilities and infrastructure• communications and control equipment• ground support equipment• operator tools• plant equipment• vehicles, trailers and equipment <p>environmental</p> <ul style="list-style-type: none">• commercial• corporate• economic• organisational• physical• political• regulatory• social <p>personnel</p> <ul style="list-style-type: none">• human factors• human performance, capabilities and limitations• physiological
Risk control methods must include one or more of the following:	<p>hierarchy of risk control</p> <ul style="list-style-type: none">• elimination• substitution• engineered controls• administrative controls• personal protective equipment



Unit Mapping Information

No equivalent unit

Links

Companion Volume Implementation guide are found in VETnet:

<http://vetnet.education.gov.au/Pages/TrainingPackage.aspx?pid=4725260a-Oaf3-4daf-912b-ef1c2f3e5816>

Assessment Requirements

Modification History

Release 2. ISC upgrade - a statement relevant to Defence Aviation has been added to the Application of the unit.
Release 1. This is the first release of this unit of competency in the AVI Aviation Training Package.

Performance Evidence – see assessment requirements PDF

Knowledge Evidence – see assessment requirements PDF

Assessment conditions – see assessment requirements PDF

Unit of competency – PDF

Assessment requirements – PDF

<https://training.gov.au/Training/Details/AVIF0004>



AVIF0004 Implement aviation risk Management processes

Element Elements describe the essential outcomes.	Performance Criteria Performance criteria describes the performance needed to demonstrate achievement of the element.	Evidence to support my achievement of competence	
		Current and Recent Evidence - including mapping	Historical evidence (more than 2-3 years old) – including mapping
1. Identify Aviation hazards and access risk	1.1 Hazards are identified through organisational methods in accordance with workplace standards		
	1.2 Stakeholders are identified and involved in the risk assessment process.		
	1.3 Likelihood and consequences of hazards are assessed and ranked against established organisational risk assessment criteria		
2. Identify risk controls	2.1 Controls that reduce risk to as slow as reasonably practicable (ALARP) are identified in accordance with workplace policies and procedures		
	2.2 Risk Management action plan is developed and communicated to all stakeholders		
	2.3 Risk Management documentation is completed and checked for accuracy		
3. Control aviation risk	3.1 Risk control sections are determined with consideration of effect on stakeholders		
	3.2 Risk control methods are communicated to stakeholders		
	3.3 Selected risk control method/s is implemented, monitored and evaluated		



Element Elements describe the essential outcomes.	Performance Criteria Performance criteria describes the performance needed to demonstrate achievement of the element.	Evidence to support my achievement of competence	
		Current and Recent Evidence - including mapping	Historical evidence (more than 2-3 years old) – including mapping
4. Monitor and review effectiveness of risk control	4.1 Implement risk control are regularly monitored against measures of success/ effective		
	4.2 Assistance is provided to review risk in own area of operation		
	4.3 Management of risk is continuously monitored and reviews in own area of operation		
	4.4 Review results are used to improve risk control		



AVIF0007 Implement threat and error management strategies

Units of Competency

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 implement threat and error management strategies, in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and National operating standards.

It includes recognising and managing actual and potential threats, recognizing and managing actual and potential errors, and recognising and managing undesired aircraft states.

This unit addresses aviation non-technical skill requirements (metal, social and personal – management abilities) of the flight crew, and contributes to safe and effective performance in complex aviation operational environments.

Operations are conducted as part of recreational, commercial and military activities across a variety of operational context 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

Unit Sector

Not applicable.

Elements and Performance criteria

See below

Resource

https://training.gov.au/TrainingComponentFiles/AVI/AVIF0007_R1.pdf

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.

Operational threats include one or more of the following:	<ul style="list-style-type: none"> • events or errors that: • occur outside the influence of the flight crew • increase the operational complexity of the flight • require crew attention and management if safety margins are to be maintained
Errors must include one or more of the following:	<ul style="list-style-type: none"> • individual or group actions or inactions that: • lead to a deviation from individual, group or organisational intentions or expectations • reduce safety margins • increase the probability of adverse operational events on the ground and/or during flight
Undesired aircraft states must include one or more of the following:	<ul style="list-style-type: none"> • incorrect aircraft systems configuration associated with a reduced margin of safety • inappropriate flight mode awareness and selection • misapplication of flight controls • pilot induced aircraft position • pilot induced speed deviation

Unit Mapping Information

No equivalent unit

Links

Companion Volume Implementation Guide at:

http://companion_volumes.vetnet.education.gov.au/Pages/TrainingPackage.aspx?pid=21

Assessment Requirements

Modification History

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

Performance Evidence – see assessment requirements PDF

Knowledge Evidence – see assessment requirements PDF

Assessment conditions – see assessment requirements PDF

Unit of competency – PDF

Assessment requirements – PDF

<https://training.gov.au/Training/Details/AVIF0007>



AVIF0007 Implement threat and error management strategies

Element Elements describe the essential outcome	Performance Criteria Performance criteria describe the performance needed to demonstrate achievement of the element.	Evidence to support my achievement of competence	
		Current and Recent Evidence - including mapping	Historical evidence (more than 2-3 years old) – including mapping
1. Recognise and manage actual and potential threats	1.1 Potential environmental or operational threats likely to affect flight safety are identified		
	1.2 Actual environmental or operational threats that affect flight safety are identified		
	1.3 Competing operational priorities and task demands that may represent a threat to flight safety are identified		
	1.4 Countermeasures to manage threats are identified and implemented		
	1.5 Flight progress and effect of countermeasures are monitored and assessed to ensure a safe outcome		
	1.6 Alternative countermeasures are identified and implemented, and effectiveness of countermeasures is re-evaluated for effectiveness		



Element Elements describe the essential outcome	Performance Criteria Performance criteria describe the performance needed to demonstrate achievement of the element.	Evidence to support my achievement of competence	
		Current and Recent Evidence - including mapping	Historical evidence (more than 2-3 years old) – including mapping
2. Recognise and manage actual and potential errors	2.1 Checklists and standard operating procedures are implemented to prevent aircraft handling, procedural or communication errors		
	2.2 Committed errors are identified and responded to before aircraft enters an undesired state		
	2.3 Aircraft systems are monitored using a systematic scan technique to collect and analyse flight information for potential or actual error recognition purposes		
	2.4 Flight operating environment is monitored to collect and analyse flight information for potential or actual error recognition purposes		
	2.5 Individual or team performance is monitored to recognise potential or actual error occurrence		
	2.6 Countermeasure implementation and supervision are undertaken to prevent errors before aircraft enters an undesired state		
	2.7 Countermeasure implementation and supervision are undertaken to correct errors after aircraft enters an undesired		



Element Elements describe the essential outcome	Performance Criteria Performance criteria describe the performance needed to demonstrate achievement of the element.	Evidence to support my achievement of competence	
		Current and Recent Evidence - including mapping	Historical evidence (more than 2-3 years old) – including mapping
3. Recognise and manage undesired aircraft states	3.1 Undesired aircraft states are recognised		
	3.2 Individual and team tasks are prioritised to ensure an undesired aircraft state is managed effectively		
	3.3 Corrective actions to recover from an undesired aircraft state are applied in a safe and timely manner		
	3.4 Undesired aircraft states are reported and recorded as required in accordance with applicable workplace procedures		



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AVIF0005 Implement aviation fatigue risk management processes

Units of Competency

Modification History

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Pre-requisite Unit

Not applicable

Competency Field

F – Safety Management

Unit Sector

Not applicable.

Elements and Performance Criteria

See below

Resource

<https://training.gov.au/Training/Details/AVIF0005>

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. Non –essential conditions can be found in the Companion Volume Implementation Guide.

Workplace standards must include:	<ul style="list-style-type: none"> • current Australian Standard (AS)/New Zealand Standard (NZS) International Organisation (ISO) risk management standard
Organisational methods to identify fatigue risk hazards must include:	<ul style="list-style-type: none"> • predictive • proactive • reactive
Fatigue risk likelihood criteria must include:	<ul style="list-style-type: none"> • rare • unlikely • possible • likely • almost certain
Fatigue risk consequence criteria must include:	<ul style="list-style-type: none"> • negligible • minor • major • moderate • severe
Fatigue risk control methods must include:	<ul style="list-style-type: none"> • hierarchy of risk control • elimination • substitution • engineered controls • administrative controls • personal protective equipment

Unit Mapping Information

No equivalent unit

Links

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Knowledge Evidence – see assessment requirements PDF

Assessment conditions – see assessment requirements PDF

Unit of competency – PDF

Assessment requirements – PDF

<https://training.gov.au/Training/Details/AVIF0005>

AVIF0005 Implement aviation fatigue risk management processes

Element Elements describe the essential outcome	Performance Criteria Performance criteria describe the performance needed to demonstrate achievement of the element.	Evidence to support my achievement of competence	
		Current and Recent Evidence - including mapping	Historical evidence (more than 2-3 years old) – including mapping
1. Identify fatigue hazards and assess risk	1.1 Fatigue hazards are identified through Organisational methods in accordance with workplace standards.		
	1.2 Stakeholders are identified and involved in the risk assessment process		
	1.3 Likelihood and consequences of fatigue hazards are assessed and ranked against established Organisational risk assessment criteria		
2. Identify fatigue risk controls	2.1 Controls that reduce fatigue risk to as low as reasonably practicable (ALARP) are identified in accordance with workplace policies and procedures.		
	2.2 Fatigue risk management is completed and checked for accuracy		
	2.3 Fatigue risk management plan is developed and communicated to all stakeholders		
3. Control Fatigue risk	3.1 Control selection is determined with consideration of effect on stakeholders		
	3.2 Fatigue risk control methods are communicated to stakeholders		
	3.3 Select control method is implemented, monitored and evaluated		



Element Elements describe the essential outcome	Performance Criteria Performance criteria describe the performance needed to demonstrate achievement of the element.	Evidence to support my achievement of competence	
		Current and Recent Evidence - including mapping	Historical evidence (more than 2-3 years old) – including mapping
4. Monitor and review effectiveness of fatigue risk control	4.1 Implemented risk controls are regularly monitored against measures of success/effectiveness		
	4.2 Assistance is provided to review fatigue risk in own area of operation		
	4.3 Management of fatigue is continuously monitored and reviewed in own area of operation		
	4.4 Review results are used to improve fatigue risk control		