



**Australian Government**

# **AVIF0007 Implement threat and error management strategies**

**Release: 1**

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## **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, recognising and managing actual and potential errors, and recognising and managing undesired aircraft states.

This unit addresses aviation non-technical skill requirements (mental, social and personal-management abilities) of flight crew, 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

## **Unit Sector**

Not applicable.

## **Elements and Performance Criteria**

### **ELEMENTS**

### **PERFORMANCE CRITERIA**

Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
<b>1 Recognise and manage actual and potential threats</b>	<p>1.1 Potential environmental or operational threats likely to affect flight safety are identified</p> <p>1.2 Actual environmental or operational threats that affect flight safety are identified</p> <p>1.3 Competing operational priorities and task demands that may represent a threat to flight safety are identified</p> <p>1.4 Countermeasures to manage threats are identified and implemented</p> <p>1.5 Flight progress and effect of countermeasures are monitored and assessed to ensure a safe outcome</p> <p>1.6 Alternative countermeasures are identified and implemented, and effectiveness of countermeasures is re-evaluated for effectiveness</p>
<b>2 Recognise and manage actual and potential errors</b>	<p>2.1 Checklists and standard operating procedures are implemented to prevent aircraft handling, procedural or communication errors</p> <p>2.2 Committed errors are identified and responded to before aircraft enters an undesired state</p> <p>2.3 Aircraft systems are monitored using a systematic scan technique to collect and analyse flight information for potential or actual error recognition purposes</p> <p>2.4 Flight operating environment is monitored to collect and analyse flight information for potential or actual error recognition purposes</p> <p>2.5 Individual or team performance is monitored to recognise potential or actual error occurrence</p> <p>2.6 Countermeasure implementation and supervision are undertaken to prevent errors before aircraft enters an undesired state</p> <p>2.7 Countermeasure implementation and supervision are undertaken to correct errors after aircraft enters an undesired state</p>
<b>3 Recognise and</b>	<p>3.1 Undesired aircraft states are recognised</p>

**manage undesired aircraft states**

- 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

## 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:

- 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:

- 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:

- 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 guides are found in VETNet -

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