



Australian Government

AVIN0002 Supervise and manage safe flight operations as pilot in command

Release: 1

AVIN0002 Supervise and manage safe flight operations as pilot in command

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 supervise and manage safe flight operations as pilot in command (PIC), in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes supervising flight crew and flight operations, managing routine flight operations, and managing contingency flight operations

This unit addresses aviation non-technical skill requirements (mental, social and personal-management abilities) related to leadership and supervision duties of a PIC, and contributes to safe and effective performance in complex aviation operational environments.

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

Work is performed independently without supervision within a 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

N – Leadership and Supervision

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.

1 Supervise flight crew and flight operations

- 1.1 Cargo loading requirements are implemented in accordance with regulatory requirements and workplace procedures
- 1.2 Flight operations and flight crew are continuously monitored throughout the flight in accordance with regulatory requirements and workplace procedures
- 1.3 Flight crew are assisted with prioritisation of workload
- 1.4 Flight crew members are provided mentorship and leadership during routine flight operations

2 Manage routine flight operations

- 2.1 Environmental factors are constantly assessed for effects on flight performance
- 2.2 Flight operations support services are advised of changes to flight operational requirements in accordance with regulatory requirements and workplace procedures
- 2.3 Current, relevant and sufficient information to support effective decision-making is gathered and provided to flight crew during routine flight operations
- 2.4 Passenger safety and comfort is monitored and managed in accordance with regulatory requirements and workplace procedures
- 2.5 Aircraft in-flight performance is continuously monitored and assessed in accordance with regulatory requirements and workplace procedures
- 2.6 Control of aircraft flight path is maintained at all times during routine flight operations

3 Manage contingency flight operations

- 3.1 Environmental factors are constantly assessed for effects on contingency flight operations
- 3.2 Safe flight profile is established during contingency flight operations and within scope of aircraft performance limitations
- 3.3 Flight crew members are allocated tasks and performance is supervised during contingency flight operations

- 3.4 Information to support decision-making is gathered and provided to flight crew during contingency flight operations
- 3.5 Aircraft inflight performance is continuously monitored, assessed and acted on in accordance with regulatory requirements, workplace procedures and/or equipment procedures during contingency flight operations
- 3.6 Control of aircraft flight path is maintained at all times during contingency flight operations, including abnormal and emergency situations
- 3.7 Aircraft is configured for safe flight to effect approach and landing as far as practicable

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.

Unit Mapping Information

No equivalent unit.

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 AVIN0002 Supervise and manage safe flight operations as pilot in command

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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 and performance criteria on at least one occasion and include:

- accepting responsibility for flight outcomes
- accepting responsibility for own performance
- advising pilot flying of deviations from planned operations
- applying relevant aeronautical knowledge
- assessing situations and making decisions
- controlling aircraft flight path during:
 - routine flight operations
 - contingency flight operations
- implementing work health and safety (WHS)/occupational health and safety (OHS) procedures and relevant regulations
- maintaining an effective lookout
- maintaining and managing situational awareness
- maintaining effective communications and interpersonal relationships
- maintaining effective leadership and authority
- making effective decisions
- managing and monitoring flight crew conditions
- managing, controlling or mitigating risk
- monitoring flight path, aircraft configuration and systems to achieve desired performance using a systematic scan technique
- operating effectively as a flight crew member
- reading, interpreting and following relevant regulations, instructions, procedures, information and signs
- selecting and using appropriate instruments, displays, communications equipment and aids
- setting flight crew priorities and managing flight crew tasks
- taking initiatives and responding to changing conditions
- using appropriate normal, abnormal and emergency aviation terminology.

Knowledge Evidence

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

- basic concepts of aviation medicine
- CASR Part 61 Manual of Standards Schedule 3 Aeronautical Knowledge relevant to human factors within air transport and multi-crew operations
- cockpit management:
 - flight crew coordination
 - distribution of responsibilities
 - working with a flight crew concept
 - flight crew cooperation:
 - small group dynamics (norms, atmosphere, pressure, communication, structure)
 - conflict management
 - leadership, style of management
 - concern for performance
 - concern for people
 - democratic versus autocratic style
 - encouraging inputs and feedback
 - optimising flight crew performance in flight
 - correcting flight crew coordination deficiencies
 - communication
 - verbal and non-verbal communication
 - one and two-way communication
 - effects of different communication styles
 - miscommunication (including cultural misunderstandings)
- effective decision-making processes
 - identify problems and causal factors
 - assess component parts systematically and logically
 - employ analytical techniques to identify solutions and consider the value and implications of each
 - generate solutions and/or alternative courses of action
 - assess alternative solutions and risks with other flight crew members
 - determine course of action
 - communicate decision and delegate tasks to flight crew
 - monitor progress against agreed plan
 - evaluate decisions in line with changing circumstances
 - ensure decision-making is improvement-focused and directed towards achieving optimum outcomes

- fatigue risk management processes:
 - proactive
 - predictive
 - reactive
- hazard identification, risk analysis and control
- flight operations and health:
 - body rhythm disturbances
 - high-altitude environments
 - incapacitation
 - intoxication
 - physiological fitness and degradation
 - psychological fitness and degradation
- general health aspects that may adversely influence individual or collective physiological/psychological condition
- how to manage causes and effects of stress and anxiety on individual or collective performance
- how to manage human factors that may influence individual or collective performance during flight operations
- human behaviour:
 - general concepts
 - cockpit management
 - judgement and decision-making
- human information processing:
 - general system
 - senses
 - integration of sensory inputs: spatial disorientation and illusions
 - memory
- judgement and decision-making:
 - pilot judgement concepts
 - types of judgement
 - motor skills and human factors
 - aeronautical decision-making
 - decision-making concepts
 - pilot responsibilities
 - behavioural aspects
 - identification of hazardous attitudes
 - physical factors
 - psychological factors
 - social influences and interface between people
 - pilot judgement awareness

- risk assessment
- cockpit stress management
- applying decision-making concepts
- practical application
- managing resources
- safety awareness
- pressure cabin
- relevant WHS/OHS procedures and regulations
- relevant sections of Civil Aviation Safety Regulations (CASRs) and Civil Aviation Orders
- respiratory system and circulation of the blood
- rapid decompression, effects and counter measures
- threat and error management (TEM) principles in multi-crew operations.

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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