



Australian Government

AVIF0032 Manage human factors as pilot in command

Release: 1

AVIF0032 Manage human factors 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

It includes managing individual and crew performance and communicating effectively as a PIC.

This unit addresses aviation non-technical skill requirements (mental, social and personal-management abilities) as a PIC 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 without supervision within a multi-crew environment.

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

Pre-requisite Unit

Not applicable.

Competency Field

F – Safety Management

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 Manage individual and crew performance

1.1 Pre- and post-operational individual and crew condition is managed to ensure safe and effective performance

- 1.2 Individual and crew performance when conducting flight operations is monitored against workplace standards, procedures and requirements
 - 1.3 Degradation of individual or crew physiological conditions is recognised and appropriate strategies are implemented to ensure safe outcome of aviation operations
 - 1.4 Degradation of individual or crew psychological condition is recognised and appropriate strategies are implemented to ensure safe outcome of aviation operations
 - 1.5 Sources of stress are identified and managed to maintain safe aviation operating conditions
 - 1.6 Limitations to operational performance are communicated to individuals and crew to maintain safe operating conditions
- 2 **Communicate effectively as PIC**
 - 2.1 Effective listening skills are applied
 - 2.2 Questions are used to gain additional information
 - 2.3 Information received is clarified/confirmed, interpreted and accurately communicated or reported with due observation of ethics and protocols required of the operational environment
 - 2.4 Communication is undertaken in varying situations and with familiar and unfamiliar individuals and teams
 - 2.5 Appropriate protocols and procedures are followed when using communications systems during normal and non-normal operations
 - 2.6 Responses are sought and provided to others in a timely manner

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

This unit replaces and is equivalent to AVIF0010 Manage human factors as pilot in command.

Links

AVI Training Package Companion Volume Implementation Guide available on VET Net: - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=4725260a-0af3-4daf-912b-ef1c2f3e5816>

Assessment Requirements for AVIF0032 Manage human factors as pilot in command

Modification History

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

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:

- applying effective listening techniques
- applying effective questioning techniques to obtain information and clarify information while communicating with others
- applying effective verbal/non-verbal communication techniques
- applying relevant aeronautical knowledge
- identifying individual or collective symptoms of deterioration in physiological and psychological conditions that might endanger the safety of flight operations and taking appropriate corrective action
- implementing contingency plans
- implementing work health and safety (WHS) procedures and relevant regulations
- maintaining compliance with relevant regulatory requirements, including avoiding alcohol and drugs before and when conducting flight operations
- managing and controlling individual and collective symptoms of stress before and when conducting flight operations
- managing and monitoring individual or crew physiological and psychological conditions when conducting flight operations
- managing aspects of lifestyle that may impact on individual or collective performance
- modifying activities depending on workplace contingencies, situations and environments
- monitoring individual or crew performance before and during the flight operations
- reading, interpreting and following relevant instructions, regulations, procedures, information and signs
- reporting and/or rectifying problems, faults or malfunctions promptly in accordance with regulatory requirements and workplace procedures
- responding appropriately to cultural differences in the workplace
- working collaboratively with others when managing human factors as pilot in command (PIC)
- 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 and performance criteria and include knowledge of:

- aviation medicine, including:
 - basic concepts
 - respiratory system and circulation of the blood
 - cabin pressure
- Civil Aviation Safety Regulation (CASR) Part 61 Manual of Standards (MOS) Schedule 3 Aeronautical Knowledge relevant to human factors within air transport operations
- flight operations and health, including:
 - high-altitude environment
 - physiological and mental fitness
 - incapacitation
 - intoxication
 - body rhythm disturbances
 - fatigue
 - stress and anxiety
 - general health aspects
- human behaviour, including:
 - general concepts
 - cockpit management
 - judgement and decision making
- human factors that may influence individual and collective performance during multi-crew operations
- human information processing, including:
 - general system
 - senses
 - integration of sensory inputs: spatial disorientation and illusions
 - memory
- managing and monitoring crew conditions, including:
 - crew and team composition principles
 - crew skills, knowledge and abilities
 - crew divisional, functional and leadership structures
- relevant WHS procedures and regulations
- relevant sections of (CASRs and Civil Aviation Orders pertaining to human factors and their effect on human performance.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training

Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

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

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.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or other 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 (PPE) currently used in industry.

Links

AVI Training Package Companion Volume Implementation Guide available on VET Net: - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=4725260a-0af3-4daf-912b-ef1c2f3e5816>