



Australian Government

AVIW0034 Perform non-pilot cockpit duties

Release: 1

AVIW0034 Perform non-pilot cockpit duties

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 perform non-pilot cockpit duties in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes monitoring aircraft systems during normal flight and monitoring aircraft systems during abnormal and emergency procedures. It also includes monitoring flight conditions and responding to abnormal and emergency situations.

This unit addresses aviation technical skill requirements (physical, mental and task-management abilities) related to equipment and system operations of non-flying pilot (NFP) flight crew and contributes to safe and effective performance in complex operational aviation environments.

Operations are conducted as part of commercial or 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.

Pre-requisite Unit

Not applicable.

Competency Field

W – Equipment and Systems Operations

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 Monitor aircraft systems during normal flight	1.1 Aircraft systems, sub-systems (equipment) and devices are monitored effectively 1.2 Aircraft systems, sub-systems (equipment) and devices are monitored using a systematic scan technique 1.3 Aircraft systems and flight environment information is analysed to identify actual and potential threats or errors 1.4 Hazards are identified, risks assessed and risk management processes implemented 1.5 Checklist procedures are completed as appropriate to aircraft system
2 Monitor aircraft systems during abnormal and emergency procedures	2.1 Abnormal or emergency situations are recognised 2.2 Aircraft flight path is monitored during abnormal and emergency response procedures 2.3 Affected aircraft system or sub-system is identified and confirmed 2.4 Appropriate abnormal or emergency procedures are identified 2.5 Inputs into course of action is provided to achieve safest outcomes 2.6 Aircraft emergency systems are monitored continually during abnormal and emergency situations
3 Monitor flight conditions	3.1 Instruments are monitored throughout flight for correct indication and operation 3.2 Aircraft altitude, attitude and heading are monitored 3.3 Situational awareness is maintained to ensure safe flight 3.4 Fuel usage is monitored 3.5 Aircraft operating limits are monitored and advice provided to pilot in command (PIC) 3.6 Operational documentation is interpreted and information provided to PIC 3.7 Aircraft operational checks are completed

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| 4 Respond to abnormal/emergency situations | 4.1 | Abnormal/emergency situations are identified and diagnosed |
| | 4.2 | Abnormal/emergency response is undertaken in accordance with aircraft checklists, pilot directions and organisational policy and 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.

Unit Mapping Information

This unit replaces and is not equivalent to AVIY4053 Perform aircrewman cockpit duties.

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 AVIW0034 Perform non-pilot cockpit duties

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 (SOPs)
- applying precautions and required action to minimise, control or eliminate identified hazards
- applying relevant aeronautical and aircraft systems knowledge
- applying relevant legislation and workplace procedures
- communicating effectively with others
- completing relevant documentation
- confirming local or area barometric pressure adjusted for sea level (QNH) is set at appropriate stages of flight
- giving and receiving instructions related to performing non-pilot cockpit duties
- identifying and correctly using required equipment and communications technology
- implementing contingency plans
- implementing work health and safety (WHS) procedures and relevant regulations
- interpreting aircraft system displays
- interpreting and following operational instructions and prioritising work
- maintaining situational awareness
- modifying activities depending on operational contingencies, risk situations and environments
- monitoring and anticipating operational problems and hazards and taking appropriate action
- monitoring the manipulation of aircraft flight controls
- monitoring work activities in terms of planned schedule
- operating and adapting to differences in communications equipment in accordance with SOPs
- operating electronic communications equipment to required protocol
- monitoring manual and automated aircraft systems
- performing fuel usage calculations
- performing systematic scan technique for monitoring aircraft systems, sub-systems (equipment) and devices
- planning own work, predicting consequences and identifying improvements
- reading, interpreting and following relevant regulations, instructions, procedures, information

and signs

- reporting and/or rectifying identified problems, faults or malfunctions promptly in accordance with workplace procedures
- selecting and using required personal protective equipment (PPE) conforming to industry and WHS standards
- undertaking fault finding in aircraft systems
- using automated systems to manage workload
- 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 and performance criteria and include knowledge of:

- abnormal/emergency conditions and responses
- aircraft capabilities and limitations
- aircraft flight control operation
- aircraft operational checks
- aircraft operational publication uses and contents
- aircraft systems operation
- basic theory of flight
- basic aeronautical knowledge (BAK)
- organisational policy and procedures in relation to non-flying pilot (NFP) cockpit duties
- relevant WHS/OHS responsibilities
- typical problems that may occur when performing cockpit duties, and possible actions and appropriate solutions
- aircraft systems, likely faults and check lists applicable to type and task, including:
 - anti-icing and de-icing systems
 - electrical systems including
 - fuel system
 - heating, ventilation and pressurisation systems
 - hydraulic system
 - oil systems
 - pitot/static system
 - pressurisation systems
 - retractable undercarriage
 - suction systems
 - traffic and collision avoidance systems (TCAS)
- automated systems and their limitations.

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 simulations
- acceptable means of simulation assessment
- applicable documentation, including workplace procedures, regulations, codes of practice and operation manuals
- relevant materials, tools, equipment and PPE currently used in industry.

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