



Australian Government

AVIY4053 Perform aircrewman cockpit duties

Release: 1

AVIY4053 Perform aircrewman 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 aircrewman cockpit duties, in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority and national operating standards.

It includes monitoring flight conditions and responding to abnormal/emergency situations.

This unit addresses aviation technical skill requirements (physical, mental and task-management abilities) related to aircraft operational duties 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

Y – Aircraft Operation and Traffic 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 Monitor flight conditions

- 1.1 Instruments are monitored throughout flight for correct indication and operation
- 1.2 Aircraft altitude, attitude and heading are monitored
- 1.3 Situational awareness is maintained to ensure safe flight
- 1.4 Fuel usage is monitored
- 1.5 Aircraft operating limits are monitored and advice is provided to pilot in command
- 1.6 Operational documentation is interpreted and information is provided to pilot in command
- 1.7 Aircraft operational checks are completed

2 Respond to abnormal/emergency situations

- 2.1 Abnormal/emergency situations are identified and diagnosed
- 2.2 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.

Aircraft operational checks must include one or more of the following:

- after landing
- after start
- after take-off
- over water
- pre-landing
- pre-start
- pre-take-off
- pre-taxi

Abnormal/emergency situations must include one or more of the following:

- shutdown
- aircraft damage
- aircraft engine/electrical fire
- avionics malfunction
- engine malfunction
- fuel system malfunction
- hydraulic system malfunction
- instrument failure
- pilot incapacitation
- transmission system malfunction

Unit Mapping Information

This unit replaces and is equivalent to AVIY4053A Perform aircrewman cockpit duties.

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 AVIY4053 Perform aircrewman 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:

- applying precautions and required action to minimise, control or eliminate identified hazards
- applying relevant helicopter aeronautical 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 aircrewman cockpit duties
- identifying and using required communications technology
- implementing contingency plans
- maintaining situational awareness
- modifying activities depending on operational contingencies, risk situations and environments
- 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 standard operating procedures
- performing fuel usage calculations
- 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
- 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, performance criteria and range of conditions 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
- CASR Part 61 Manual of Standards Schedule 3 Aeronautical Knowledge relevant to helicopter operations
- organisational policy and procedures in relation to aircrew carrying out cockpit duties
- relevant work health and safety (WHS)/occupational health and safety (OHS) responsibilities
- typical problems that may occur when performing aircrewman cockpit duties, and possible actions and appropriate solutions.

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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