



Australian Government

Department of Education, Employment and Workplace Relations

AVIY4053A Perform aircrewman cockpit duties

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit Descriptor

This unit involves the skills and knowledge required to perform aircrewman cockpit duties including monitoring flight conditions and responding to abnormal/emergency situations. This unit does not include pre-flight inspections, and operation of communications equipment. Licensing, legislative, regulatory or certification requirements are applicable to this unit.

Application of the Unit

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Work must be carried out in compliance with the relevant regulatory requirements of the Civil Aviation Safety Authority and national operating standards.

Use for ADF Aviation is to be in accordance with relevant Defence Orders and Instructions and applicable CASA compliance.

Operations are conducted across a variety of operational contexts within the Australian aviation industry.

Work is performed under limited supervision.

This unit of competency is nominally packaged at Certificate IV.

Licensing/Regulatory Information

Not applicable.

Pre-Requisites

Not applicable.

Employability Skills Information

Employability Skills

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the required performance needed to demonstrate achievement of the element. Assessment of performance is to be consistent with the evidence guide.

Elements and Performance Criteria

ELEMENT

PERFORMANCE CRITERIA

1 Monitor flight conditions

- 1.1 Instruments are monitored throughout flight for correct indication and operation as per established procedures
- 1.2 Aircraft altitude, attitude and heading is monitored in accordance with organisational policy and procedures
- 1.3 Situational awareness is maintained to ensure safe flight
- 1.4 Fuel usage is monitored in accordance with organisational policy and procedures
- 1.5 Aircraft operating limits are monitored and advice is provided to the pilot in accordance with organisational policy and procedures
- 1.6 Operational documentation is interpreted and information is provided to the pilot in accordance with organisational policy and procedures
- 1.7 Aircraft operational checks are completed in accordance with aircraft flight manuals

2 Respond to abnormal/emergency situations

- 2.1 Abnormal/emergency situations are identified and diagnosed in accordance with organisational policy and procedures
- 2.2 Abnormal/emergency response is undertaken in accordance with aircraft checklists, pilot's directions and organisational policy and procedures

Required Skills and Knowledge

REQUIRED KNOWLEDGE AND SKILLS

This describes the essential knowledge and skills and their level required for this unit.

Required knowledge:

- Organisational policy and procedures in relation to aircrew carrying out cockpit duties
- Basic theory of flight
- Aircraft capabilities and limitations
- Aircraft systems operation
- Abnormal/emergency conditions and responses
- Aircraft flight control operation
- Aircraft operational checks
- Aircraft operational publication uses and contents
- Relevant OH&S responsibilities
- Typical problems that may occur when performing aircrewman cockpit duties, actions and appropriate solutions

Required skills:

- Monitor the manipulation of aircraft flight controls
- Give and receive instructions related to performing aircrewman cockpit duties
- Perform fuel usage calculations
- Maintain situational awareness
- Complete documentation related to performing aircrewman cockpit duties
- Interpret and follow aircraft documentation
- Communicate effectively with others when performing aircrewman cockpit duties
- Read and interpret instructions and procedures relevant to performing aircrewman cockpit duties
- Interpret and follow operational instructions and prioritise work
- Identify and use required communication technology
- Work collaboratively with others when performing aircrewman cockpit duties
- Adapt appropriately to cultural differences in the workplace, including modes of behaviour and interactions with others
- Promptly report and/or rectify any identified problems, faults or malfunctions that may occur when performing aircrewman cockpit duties in accordance with workplace procedures
- Implement contingency plans for unanticipated situations that may arise when performing aircrewman cockpit duties
- Apply precautions and required action to minimise, control or eliminate hazards that may exist

REQUIRED KNOWLEDGE AND SKILLS

when performing aircrewman cockpit duties

- Plan own work including predicting consequences and identifying improvements
- Monitor work activities in terms of planned schedule
- Modify activities depending on differing operational contingencies, risk situations and environments
- Work systematically with required attention to detail without injury to self or others, or damage to goods or equipment
- Operate and adapt to differences in communication equipment in accordance with standard operating procedures

Evidence Guide

EVIDENCE GUIDE

The Evidence Guide provides advice on assessment and must be read in conjunction with the performance criteria, required knowledge and skills, the range statement and the assessment guidelines for this Training Package.

Critical aspects for assessment and evidence required to demonstrate competency in this unit

- The evidence required to demonstrate competency in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria of this unit and include demonstration of applying:
 - the underpinning knowledge and skills
 - relevant legislation and workplace procedures
 - other relevant aspects of the range statement

Context of and specific resources for assessment

- Performance is demonstrated consistently over a period of time and in a suitable range of contexts
- Resources for assessment include:
 - a range of relevant exercises, case studies and/or other simulated practical and knowledge assessment, and/or
 - access to an appropriate range of relevant operational situations in the workplace
- In both real and simulated environments, access is required to:
 - relevant and appropriate materials and equipment, and
 - applicable documentation including workplace procedures, regulations, codes of practice and operation manuals

Method of assessment

- Assessment of this unit must be undertaken by a registered training organisation
- As a minimum, assessment of knowledge must be conducted through appropriate written/oral tests
- Practical assessment must occur:
 - through activities in an appropriately simulated environment at the registered training organisation, and/or
 - in an appropriate range of situations in the workplace

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance.

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|---|--|
| Aircraft may include: | <ul style="list-style-type: none">• single or multiple engine• fixed or rotary wing |
| Aircraft publications may include: | <ul style="list-style-type: none">• checklists• flight manuals• RAAF supplements• organisational policy and procedures manuals• aviation maintenance documentation• aeronautical information publications• flight information publications• approach plates• aeronautical charts |
| Aircraft operational checks may include: | <ul style="list-style-type: none">• pre-start• after start• pre-taxi• pre-take-off• after take-off• pre-landing• after landing• shutdown• over water |
| Abnormal/emergency situations may include: | <ul style="list-style-type: none">• avionics malfunction• engine malfunction• fuel system malfunction• hydraulic system malfunction• transmission system malfunction• instrument failure• fire• aircraft damage• pilot incapacitation |
| Depending on the type of organisation concerned and the local terminology used, workplace procedures may include: | <ul style="list-style-type: none">• company procedures• enterprise procedures• organisational procedures• established procedures |
| Information/documentation may include: | <ul style="list-style-type: none">• relevant sections of Civil Aviation Safety Regulations• in Defence context, relevant Defence Orders and Instructions |

RANGE STATEMENT

Applicable regulations and legislation may include:

- Flight Manual/Pilot's Operating Handbook (POH)
- Aeronautical Information Publication (AIP)
- charts
- operations manuals
- approved checklists
- workplace procedures and instructions and job specification
- induction and training materials
- conditions of service, legislation and industrial agreements including workplace agreements and awards
- relevant Civil Aviation Safety Regulations and Civil Aviation Orders
- in Defence context, relevant Defence Orders and Instructions
- relevant state/territory OH&S legislation
- relevant state/territory environmental protection legislation
- relevant Australian Standards

Unit Sector(s)

Not applicable.

Competency field

Competency Field

Y - Aircraft Operation and Traffic Management