



Australian Government

Department of Education, Employment and Workplace Relations

AVIM5002A Conduct aeronautical knowledge training

Revision Number: 1

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Modification History

Not applicable.

Unit Descriptor

Unit Descriptor

This unit involves the skills and knowledge required to plan, conduct and review aeronautical knowledge training for flight crew. Licensing, legislative, regulatory or certification requirements are applicable to this unit.

Application of the Unit

Application of the Unit

Work must be carried out in compliance with the relevant licence and aircraft rating requirements of the Civil Aviation Safety Authority (CASA); relevant airspace control requirements and Day Visual Flight Rules (Day VFR); and aircraft control principles and regulations.

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 Diploma.

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 Plan training

- 1.1 Trainee's readiness for training is confirmed
- 1.2 Training objectives, including Threat and Error Management, training plan and other appropriate training resources are identified
- 1.3 Lesson and delivery method appropriate to training objectives are planned
- 1.4 Assessment procedures are specified
- 1.5 Theory training with flight training lessons are appropriately scheduled and integrated
- 1.6 Availability of facilities, equipment, training aids and reference materials is confirmed

2 Conduct knowledge training

- 2.1 Learning environment and motivation suitable to trainee characteristics is established
- 2.2 Materials are presented
- 2.3 Training objectives are stated
- 2.4 Lesson plan is followed and modified where applicable to achieve training objectives and transfer of knowledge
- 2.5 New knowledge to previous knowledge is linked and presented within a meaningful and logical framework
- 2.6 Training aids are used to illustrate and enhance explanations
- 2.7 Accurate technical knowledge is presented clearly and to the required standard
- 2.8 Opportunities for trainee participation and practice are provided
- 2.9 Applicable Threat and Error Management issues are discussed
- 2.10 Trainees ability to apply Threat and Error Management principles to the material presented is confirmed
- 2.11 Achievement of training objectives is confirmed by questioning, review and other suitable methods
- 2.12 Feedback on trainee performance is provided
- 2.13 Trainee self-assessment skills are developed
- 2.14 Training objectives are completed in the time available
- 2.15 Training is conducted effectively and safely

3 Review training

- 3.1 Training objectives and transfer of knowledge are achieved
- 3.2 Training delivery and effectiveness using self-assessment, peers and supervisors is reviewed
- 3.3 Records of assessment and progress of trainee are maintained and reviewed in accordance with established workplace 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:

- Relevant sections of national and state or territory regulatory requirements and codes of practice
- Relevant OH&S and environmental procedures and regulations
- Requirements for completing relevant documentation
- Adult learning principles
- Fundamentals of instructing, questioning, engaging and motivating learners
- Effective use of a course of training, curricula/syllabus and lesson plans
- Training and assessment standards
- Debriefing and feedback techniques
- Principles of flight
- Crew Resource Management (CRM) principles
- Scenario-based training and its advantages in aeronautical knowledge training
- Risk management principles applicable to emergency procedure simulations in flight
- Operational concept of Threat and Error Management in relation to flight training in terms of:
 - managing threats
 - managing errors
 - managing undesired aircraft state
- Suitable procedures for developing trainee Threat and Error Management skills
- Task prioritisation system to assist the development of trainee task management skills in terms of:
 - aircraft control
 - navigation
 - communication
- Suitable procedures for making decisions in-flight and for developing trainee decision making skills
- How goal fixation affects good decision making
- Three types of stress likely to affect trainee performance and methods of assisting trainees to cope with stress:
 - physical
 - physiological
 - psychological

REQUIRED KNOWLEDGE AND SKILLS

Required skills:

- Communicate effectively with others when conducting aeronautical knowledge training
- Assess learning and performance
- Evaluate instructional effectiveness
- Manage an environment that fosters learning and performance
- Demonstrate flight instructor role modelling
- Apply Crew Resource Management (CRM) skills applicable to flight training and the role of the instructor in assisting the trainee to develop these skills
- Apply situational awareness and methods of developing and monitoring trainee situational awareness skills in terms of:
 - monitoring current environmental factors
 - evaluating their possible effects on the flight
 - anticipating the need for alternative actions
- Read and interpret instructions, regulations, procedures and other information relevant to aeronautical knowledge training
- Interpret and follow operational instructions and prioritise work
- Complete documentation related to aeronautical knowledge training
- Adapt appropriately to cultural differences in the workplace, including modes of behaviour and interactions with others
- Promptly report and/or rectify any identified problems that may occur when conducting aeronautical knowledge training in accordance with regulatory requirements and workplace procedures
- Apply precautions and required action to minimise, control or eliminate hazards that may exist during aeronautical knowledge training
- Monitor work activities in terms of planned schedule
- Modify activities dependent on differing workplace contingencies, situations and environments
- Work systematically with required attention to detail without injury to self others, or damage to goods or equipment
- Adapt to differences in equipment and operating environment in accordance with standard operating procedures
- Select and use required personal protective clothing and equipment conforming to industry and OH&S standards
- Implement OH&S procedures and relevant regulations
- Identify and correctly use equipment required to conduct aeronautical knowledge training

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:
 - developing an appropriate training plan that includes Threat and Error Management
 - conducting training effectively and safely and meeting the training objectives
 - achieving transfer of knowledge and training objectives
 - maintaining and reviewing assessment records and trainee progress

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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|---|--|
| The instructor will deliver training to: | <ul style="list-style-type: none"> • persons undertaking aeronautical knowledge or flight training for the issue of a flight crew licence, rating, endorsement or category |
| Lessons will present: | <ul style="list-style-type: none"> • aeronautical knowledge required for the units and elements of competency applicable to the Civil Aviation Safety Authority licence, rating, or Defence category being sought |
| The training environment includes: | <ul style="list-style-type: none"> • suitable classroom • briefing facilities • training aids |
| Training is delivered in accordance with: | <ul style="list-style-type: none"> • appropriate and documented lesson plans |
| Training resources may include: | <ul style="list-style-type: none"> • audio visual aids • aircraft models • synthetic training devices • regulatory publications • aircraft and operations manuals |
| Dependent on the type of organisation concerned and the local terminology used, workplace procedures may be referred to as: | <ul style="list-style-type: none"> • company procedures • enterprise procedures • organisational procedures • standard operating procedures • manufacturers guidelines • established procedures • workplace instructions |
| Information/documents may include: | <ul style="list-style-type: none"> • relevant sections of Civil Aviation Safety Regulations and Civil Aviation Orders pertaining to aeronautical knowledge training • in Defence context, relevant Defence Orders and Instructions • Flight Manual/Pilot's Operating Handbook (POH) • Manual of Standards - Pilot Licensing (MOS-PL) • Aeronautical Information Publication (AIP) • En Route Supplement Australia (ERSA) • relevant sections of the Civil Aviation Advisory Publications (CAAP) • charts |

RANGE STATEMENT

- 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 Bureau of Meteorology, International Civil Aviation Organization (ICAO) and/or World Meteorology Organization (WMO) publications
 - 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
 - the needs of the trainee and against the standards specified for the issue of the licence, rating, endorsement or category
- Applicable regulations and legislation may include:
- Training outcomes are reviewed as applicable to:

Unit Sector(s)

Not applicable.

Competency field

Competency Field M - Training and Assessment