



Australian Government

AVIY0002 Operate in controlled airspace

Release: 1

AVIY0002 Operate in controlled airspace

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 operate in controlled airspace, in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes applying controlled airspace procedures, and applying abnormal and emergency situation response procedures.

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 Apply controlled airspace procedures	1.1 Control area (CTA) and control zone (CTR) instructions for departure, climb, transition to cruise (levelling out), cruise, change of levels, descent and visual approach procedures are adhered to 1.2 Airways clearance requirements for entering, operating in and departing from CTA and CTR are adhered to 1.3 Adverse weather conditions affecting airways clearance maintenance are advised to appropriate air traffic services as required 1.4 Air traffic service requirements for a change in level within CTA during routine flight are adhered to 1.5 Class C, D and G navigational chart information is identified and interpreted for use within controlled airspace 1.6 Separation standards between instrument flight rule (IFR) flights, and IFR and visual flight rule (VFR) flights in various classes of CTA are confirmed and applied 1.7 Restricted and danger area separation requirements are identified and maintained 1.8 Class C, D and G radio and navigation aid frequencies are identified and used within controlled airspace 1.9 Aircraft IFR/VFR separation requirements are maintained 1.10 Aircraft altitude and tracking tolerances when operating on an airways clearance are maintained 1.11 CTA protection tolerances are maintained 1.12 Radar vectoring procedures, including radio procedures and phraseologies, are implemented as required through air traffic services instruction 1.13 Airways clearance requirements for operating in all classes of airspace, including lead time required for flight plan submission, contents, clearance void time, and 'read back' requirements are complied with
2 Apply abnormal and emergency situation	2.1 Aircraft is configured to maintain safe operating conditions within controlled airspace requirements during abnormal and

response procedures**emergency situations**

- 2.2 Aircraft position and intention broadcasts are made to local and area traffic, including air traffic services
- 2.3 Appropriate radio communication failure or emergency transponder codes during abnormal or emergency situations are selected within CTA and CTR airspace
- 2.4 Air traffic service requirements for a change in level within CTA during abnormal or emergency situations are adhered to

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

No equivalent unit.

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 AVIY0002 Operate in controlled airspace

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 and performance criteria on at least one occasion and include:

- adhering to air traffic services requirements for a change in level within control area (CTA), including emergency situations
- applying airways clearance requirements for entering, operating in and departing from CTA and control zone (CTR)
- applying relevant aeronautical knowledge
- complying with departure, climb, transition to cruise (levelling out), cruise, change of levels, descent and visual approach procedures in CTA and CTR instructions
- identifying controlled airspace separation requirements
- identifying danger area operating requirements
- obtaining and interpreting traffic information
- operating under radar vectoring procedures, including radio procedures and phraseologies
- performing appropriate actions in abnormal operations and emergencies
- performing appropriate actions radio communication in CTA and CTR is lost
- reading, interpreting and following relevant regulations, instructions, procedures, information and signs
- recalling transponder emergency and communication failure codes
- reconfirming air traffic services instructions where doubt exists
- selecting appropriate aircraft lighting configuration
- setting appropriate radio communication failure or emergency transponder codes during abnormal or emergency situations
- setting local or area barometric pressure adjusted for sea level (QNH) at appropriate stages of flight
- transmitting appropriate aircraft position and intention broadcasts.

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:

- aerodrome ground markings and lighting
- air traffic services information requirements
- CASR Part 61 Manual of Standards Schedule 3 Aeronautical Knowledge relevant to aeroplane or helicopter operations within controlled airspace
- Class C, D and G airspace operating requirements
- controlled airspace
- danger areas
- Notice to Airmen (NOTAM) information requirements
- radio failure procedures
- restricted airspace
- standard radio telecommunication phraseology
- transponder codes for Class C, D and G airspace
- visual flight rules (VFR)
- visual navigation charts (VNC).

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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