



Australian Government

AVIY5027 Perform non published instrument departure procedures

Release: 1

AVIY5027 Perform non published instrument departure procedures

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 published instrument departure procedures, in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority and national operating standards.

It includes determining applicable standards for an instrument departure and taking off and climbing to cruising altitude/level under the Instrument Flight Rules (IFR) (non standard instrument departure [SID]/standard radar departure [SRD]).

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

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

1 Determine applicable standards for an instrument departure (non SID/SRD)

- 1.1 Standard take-off minima is determined in accordance with the aerodrome using aeronautical information publication (AIP)
- 1.2 Departure is planned to ensure aircraft can maintain obstacle and terrain clearance after take-off and during climb to lowest safe altitude (LSALT)
- 1.3 Ceiling minima is increased and/or track is planned to ensure terrain clearance is maintained, as required

2 Take off and climb to cruising altitude/level under the IFR (non SID/SRD)

- 2.1 Appropriate checklist items are completed and confirmed to ensure aircraft systems applicable to instrument take-off are operating correctly
- 2.2 Radios, navigation aids and flight instruments are set to desired setting prior to initiating take-off
- 2.3 Track, altitude requirements and emergency procedures are reviewed and briefed for an instrument departure
- 2.4 Climb to cruising altitude/level after take-off is achieved
- 2.5 Obstacle and terrain clearance is maintained below LSALT while intercept track is maintained within 5 nm of departure aerodrome
- 2.6 Transitions from visual meteorological conditions to actual or simulated instrument meteorological conditions are performed without loss of aircraft control
- 2.7 Radio transmissions are performed in accordance with AIP requirements
- 2.8 Separation from other traffic is maintained

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 equivalent to AVIY5027A Perform instrument departure - non published procedure.

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 AVIY5027 Perform non published instrument departure procedures

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:

- adapting to differences in equipment and operating environment in accordance with standard operating procedures
- applying precautions and required action to minimise, control or eliminate identified hazards
- applying relevant aeronautical knowledge
- applying relevant legislation and workplace procedures
- calculating standard take-off minima
- communicating effectively with others
- completing relevant documentation
- identifying and correctly using equipment required to perform a non published instrument departure
- implementing contingency plans
- implementing work health and safety (WHS)/occupational health and safety (OHS) procedures and relevant regulations
- interpreting and following operational instructions and prioritise workload
- modifying activities depending on workplace contingencies, situations and environments
- monitoring and anticipating operational problems and hazards and taking appropriate action
- monitoring work activities in terms of planned schedule
- operating electronic communications equipment to required protocol
- reading, interpreting and following relevant regulations, instructions, procedures, information and signs
- reporting and/or rectifying identified problems promptly, in accordance with regulatory requirements and workplace procedures
- selecting and using required personal protective clothing and equipment conforming to industry and WHS/OHS standards
- setting local or area barometric pressure adjusted for sea level (QNH) at appropriate stages of flight
- 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:

- CASR Part 61 Manual of Standards Schedule 3 Aeronautical Knowledge relevant to instrument flight operations
- conditions required to effect at take-off with no meteorological forecast
- content and timing of airborne and departure reports
- non published instrument departure procedures
- obstacle and terrain clearance requirements after take-off and during the climb to lowest safe altitude (LSALT)
- pilot responsibility in an instrument flight rules (IFR) visual departure
- procedures for abnormal operations and/or emergencies
- procedures for loss of radio communication
- requirement for establishing aircraft on departure track
- take-off minima for single or multi engine aircraft at aerodromes without suitable instrument departure procedures
- transponder code requirements for the flight.

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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