



Australian Government

AVIY5028 Perform published instrument departure procedures

Release: 1

AVIY5028 Perform 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 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 using published procedures, and taking off and climbing to cruising level using published procedures (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.

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|--|---|
| 1 Determine applicable standards for an instrument departure using published procedures | <div>1.1 Standard take-off minima is determined for the aerodrome in accordance with aeronautical information publication (AIP)</div> <div>1.2 Plan is developed to ensure obstacle clearance requirements for take-off area</div> <div>1.3 Aircraft performance is calculated to ensure minimum design climb gradient of SID or SRD and any additional specified gradients can be achieved</div> |
| 2 Take off and climb to cruising level using published procedures | <div>2.1 Appropriate checklist items are completed and confirmed to ensure aircraft systems applicable to instrument take-off are operating correctly</div> <div>2.2 Radios, navigation aids/systems and flight instruments are set to desired setting prior to initiating take-off</div> <div>2.3 Track, altitude requirements and emergency procedures for SID or SRD are reviewed and self-briefed or briefed to flight crew</div> <div>2.4 Climb to cruising altitude/level after take-off is achieved from standard take-off ceiling</div> <div>2.5 Obstacle and terrain clearance is maintained while below lowest safe altitude (LSALT)/minimum safe altitude (MSA) to intercept track in accordance with SID or SRD requirements</div> <div>2.6 Transitions from visual meteorological conditions to actual or simulated instrument meteorological conditions are performed without loss of aircraft control</div> <div>2.7 Radio transmissions are performed in accordance with AIP requirements</div> |

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 AVIY5028A Perform instrument departure - published procedures (SID/SRD).

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 AVIY5028 Perform 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 legislation and workplace procedures
- calculating standard take-off minima
- communicating effectively with others
- completing relevant documentation
- identifying and correctly using relevant equipment
- implementing contingency plans
- implementing work health and safety (WHS)/occupational health and safety (OHS) procedures and relevant regulations
- interpreting a standard instrument departure (SID) or standard radar departure (SRD) chart
- interpreting and following operational instructions and prioritise workload
- maintaining assigned SID/SRD, including all tracks, headings, altitudes and speeds
- 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
- performing a cleared departure safely and maintaining tracks, headings, altitudes and speeds within specified tolerances
- 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
- 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:

- conditions required to effect a take-off with no meteorological forecast
- pilot responsibilities if SID or SRD tracking and performance requirements cannot be met
- pilot responsibilities when SID or SRD clearance is given or cancelled
- procedures for abnormal operations and/or emergencies during SID, including navigation aid failure
- procedures for loss of radio communication during SID or SRD
- radio report requirements to be made in an SID or SRD
- SID and SRD procedures and limitations
- SID and SRD tracking and performance requirements, and flight parameters assumed of aircraft
- take-off minima for single and twin engine aircraft for aerodromes with relevant instrument approach procedures.

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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