



Australian Government

AVIY0050 Perform instrument arrival and standard arrival route procedures

Release: 1

AVIY0050 Perform instrument arrival and standard arrival route 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 instrument arrival and standard arrival route (STAR) procedures in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes preparing for instrument meteorological conditions (IMC) arrival, conducting IMC arrival to instrument approach point, and conducting IMC arrival using a STAR.

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.

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.

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| 1 Prepare for IMC arrival | 1.1 Applicable aerodrome weather, airfield conditions and traffic information are obtained and applied |
| | 1.2 Descent/approach checks and briefs are completed |
| | 1.3 Approach and landing configurations are established appropriate for the runway and meteorological condition |
| 2 Conduct IMC arrival to instrument approach point | 2.1 Ground track is maintained to ensure subsequent instrument approach or traffic pattern can be flown, taking into account any obstructions and air traffic control (ATC) instructions |
| | 2.2 Obstacle clearance minima are maintained in accordance with aeronautical information publication (AIP) and/or ATC instructions |
| | 2.3 Existing wind conditions are verified making corrections for drift to maintain a precise ground track |
| | 2.4 Stabilised approach is maintained within specified airspeed and rate of descent tolerances |
| | 2.5 Approach point is intercepted in accordance with AIP requirements for commencing selected instrument approach |
| 3 Conduct IMC arrival using a STAR | 3.1 Current chart for STAR to be flown is selected and navigation systems are configured |
| | 3.2 Approach applicable to runway being used for landing is correctly executed |
| | 3.3 Aircraft is correctly manoeuvred from an inbound route to a fix at or near the destination aerodrome, using navigation aids and transition to an approach as instructed by ATC |
| | 3.4 Obstacle clearance minima are maintained in accordance with AIP and/or ATC instructions |
| | 3.5 Aircraft is manoeuvred within tolerance specified in AIP |
| | 3.6 ATC instructions amending STAR procedure are correctly implemented |

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 AVIY0022 Perform instrument arrival and standard arrival route procedures.

Links

AVI Training Package Companion Volume Implementation Guide available on VET Net: - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=4725260a-0af3-4daf-912b-ef1c2f3e5816>

Assessment Requirements for AVIY0050 Perform instrument arrival and standard arrival route procedures

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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 (SOPs)
- adjusting for deviation in aircraft vertical profile
- applying precautions and required action to minimise, control or eliminate identified hazards
- applying relevant aeronautical knowledge
- applying relevant legislation and workplace procedures
- communicating effectively with others
- completing relevant documentation
- identifying and correctly using relevant equipment
- implementing contingency plans
- implementing work health and safety (WHS) procedures and relevant regulations
- interpreting and following operational instructions and prioritising work
- interpreting standard arrival route (STAR) charts
- manipulating flight management system (FMS)/navigation (NAV) system data
- 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 equipment (PPE) conforming to industry and WHS 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, performance criteria and include knowledge of:

- applicable instrument approach procedure or visual approach at end of STAR
- applicable instrument approach procedure or visual approach at end of an instrument arrival
- Civil Aviation Safety Regulation (CASR) Part 61 Manual of Standards (MOS) Schedule 3 Aeronautical Knowledge relevant to instrument flight operations
- how to read and interpret a STAR chart
- instrument arrival procedures and limitations
- instrument arrival radio procedures
- loss of radio communication during an instrument arrival
- loss of radio communication during STAR
- methodologies for input, monitoring and amending FMS/NAV system data
- pilot responsibilities during instrument arrival
- pilot responsibilities when STAR clearance is given or cancelled
- procedures for abnormal operations and/or emergencies during an instrument arrival, including navigation aid failure
- procedures for abnormal operations and/or emergencies during STAR, including navigation aid failure
- STAR procedures and limitations
- STAR radio procedures.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

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.

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 PPE currently used in industry.

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