



Australian Government

AVIY0013 Conduct a 2D instrument approach

Release: 1

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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 conduct a 2D instrument approach, in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority and national operating standards.

It includes preparing for an approach, conducting the initial approach and conducting a holding pattern. It also includes conducting an approach and conducting a missed approach.

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 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 Operations 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 Prepare for approach

- 1.1 Latest available information for destination is reviewed
- 1.2 Navigation system validity check is conducted as required
- 1.3 Receiver autonomous integrity monitoring (RAIM) check is conducted as required
- 1.4 Flight plan is selected, loaded, checked and activated as required
- 1.5 Current approach chart for the approach to be flown is selected and briefed to flight crew
- 1.6 Navigation aid required for approach is checked and confirmed as serviceable

2 Conduct initial approach

- 2.1 Altimeter QNH is set correctly
- 2.2 Aircraft is manoeuvred to holding fix

3 Conduct a holding pattern

- 3.1 Holding pattern is entered and performed from holding fix
- 3.2 Aircraft is flown in accordance with relevant approach procedure requirements

4 Conduct an approach

- 4.1 Altimeter QNH is updated and set
- 4.2 Automation is used appropriately
- 4.3 Approach is performed correctly and within published tolerances
- 4.4 Navigation aid signal integrity is monitored during approach
- 4.5 Aircraft is flown to a stabilised descent profile from final approach fix to minima
- 4.6 Visual reference is established and a visual circling or runway approach is conducted for a landing on the selected runway

5 Conduct a missed approach

- 5.1 Missed approach conditions are recognised and missed approach is initiated
- 5.2 Aircraft is manoeuvred to missed approach point (MAPt)
- 5.3 Missed approach procedure is conducted in accordance with

the instrument approach and landing (IAL) chart

- 5.4 Obstacle clearance in instrument meteorological conditions (IMC) or simulated IMC 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.

- 2D instrument approach must include one or more of the following:
- non-directional beacon (2D)
 - VHF omnidirectional range (VOR) and localiser (LOC)
 - distance measuring equipment (DME)/global navigation satellite system (GNSS) arrival (DGA)
 - required navigation performance RNP-LNAV (RNAV/GNSS) and RNP-LP (wide area augmentation system [WAAS]) as required

Unit Mapping Information

No equivalent unit.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=4725260a-0af3-4daf-912b-ef1c2f3e5816>