



Australian Government

AVIY0014 Conduct a 3D 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 3D 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 applicable
	1.3 Receiver autonomous integrity monitoring (RAIM)/ satellite-based augmentation system (SBAS) check is conducted as required
	1.4 Flight plan is selected, loaded, checked and activated as applicable
	1.5 Current approach chart for approach to be flown is selected and briefed
	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 the holding fix
3 Conduct a holding pattern	3.1 Holding pattern is entered and performed from the 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 Navigation aid signal integrity is monitored during approach
	4.4 Vertical and lateral flight path is flown within published tolerances
	4.5 Specified altitude check on glide slope is performed
	4.6 Aircraft is flown to a stabilised descent profile from the final approach fix to minima
	4.7 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 the 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.

3D instrument approach must include one or more of the following:

- instrument landing system (ILS)
- microwave landing system MLS
- global navigation satellite system with ground-based augmentation (GLS)
- required navigation performance lateral navigation/vertical navigation barometric (RNP-LNAV/VNAV [Baro]) and required navigation performance localizer performance with vertical guidance (RNP-LPV (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>