



**Australian Government**

# **AVIH0013 Plan a flight under instrument flight rules**

**Release: 1**

# AVIH0013 Plan a flight under instrument flight rules

## 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 plan a flight under instrument flight rules (IFR) in compliance with the relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes determining aircraft meets requirements for IFR flight, obtaining and using current operational documents, and preparing charts and flight plans for instrument meteorological conditions (IMC) flight. It also includes determining operational requirements, making flight notifications and programming navigation systems.

This unit addresses aviation technical skill requirements (physical, mental and task-management abilities) related to route planning and navigation 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

H – Route Planning and Navigation

## 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.   |
|---|---|
| <b>1 Determine aircraft meets requirements for IFR flight</b> | <p><b>1.1</b> Aircraft requirements for IFR flight are determined</p> <p><b>1.2</b> Flight and navigation instruments, minimum electrical lighting, navigation equipment and any other requirements fitted to aircraft are checked to ensure they are suitable and acceptable for IFR flight</p>  |
| <b>2 Obtain and use current operational documents</b>         | <p><b>2.1</b> Operational documents applicable to flight are obtained and checked for currency</p> <p><b>2.2</b> Applicable information contained in documents for flight planning and management is interpreted and applied</p> <p><b>2.3</b> Documents required for flight are stowed and their accessibility for pilot during flight is ensured</p>  |
| <b>3 Prepare charts and flight plan for IMC flight</b>        | <p><b>3.1</b> Charts suitable for intended IFR flight are selected and prepared</p> <p><b>3.2</b> Applicable information to prepare a flight plan that details tracks, distances, times, altitudes to be flown and fuel requirements to reach destination are obtained, analysed and applied</p> <p><b>3.3</b> Meteorological, airways facilities, aerodrome and Notice to Airmen (NOTAM) information applicable to planning and conducting a flight is obtained, interpreted and applied</p> <p><b>3.4</b> Routes to optimise options in an engine failure are planned</p> |
| <b>4 Determine operational requirements</b>                   | <p><b>4.1</b> Suitability of aerodrome for instrument flight operations is determined</p> <p><b>4.2</b> Curfew requirements are complied with</p> <p><b>4.3</b> Duration of flight is determined</p> <p><b>4.4</b> Holding, alternate and reserve fuel requirements due to weather, navigation aid availability and aerodrome lighting are determined in accordance with operational requirements</p>   |

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|------------------------------------|------------|--|
|                                    | <b>4.5</b> | Total fuel requirements are calculated                               |
| <b>5 Make flight notification</b>  | <b>5.1</b> | Flight notification is prepared for planned IFR flight               |
|                                    | <b>5.2</b> | Completed flight notification is submitted                           |
|                                    | <b>5.3</b> | Flight notification acceptance is confirmed                          |
| <b>6 Program navigation system</b> | <b>6.1</b> | Data for transfer to approved airborne navigation system is prepared |
|                                    | <b>6.2</b> | Navigation data is loaded and checked                                |

## 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 AVIH0005 Plan a flight under instrument flight rules.

## 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>