



**Australian Government**

# **AVIY0016 Lead formation flight**

**Release: 1**

# AVIY0016 Lead formation flight

## 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 lead formation flights, in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes planning a formation flight, briefing and debriefing formation flight crews, leading a formation, and managing abnormal and emergency situations while leading a formation flight.

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

AVIY4063 Perform close formation flight

## 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.

**1 Plan a formation flight**

- 1.1 Formation flight tasking requirements are identified
- 1.2 Crews, briefing venue, timing and aircraft availability are coordinated
- 1.3 Task is analysed to determine manoeuvres and formations that ensure safe outcome
- 1.4 Flight route is planned to achieve formation outcomes in the time available and within performance capabilities of the flight
- 1.5 All air traffic, area limitations and navigation requirements are complied with
- 1.6 Actions in abnormal or emergency situations involving the formation are planned

**2 Brief and debrief formation flight crew**

- 2.1 Ground and flight manoeuvres are briefed and confirmed with formation flight crews
- 2.2 Timings, route/s, speeds and altitudes to be flown are specified
- 2.3 Deputy formation leader responsibilities are briefed and confirmed
- 2.4 Communication procedures, minimum fuel, abnormal and emergency procedures and method of return for landing are briefed and confirmed
- 2.5 Achievements and any faults or errors that occurred during the formation flight are identified
- 2.6 Guidance and feedback is provided to other formation members during post-flight debrief

**3 Lead a formation**

- 3.1 Lead aircraft is manoeuvred using controlled corrective action to ensure a stable platform for pilots flying in formation stations
- 3.2 Formation is safely manoeuvred anticipating and allowing for formation size, proximity to obstructions, terrain, airspace limitations, weather conditions and air traffic, while ensuring compliance with regulatory requirements

- 3.3 Formation is directed and controlled using precise standard radio phraseology, hand and other signal procedures
  - 3.4 Formation lost contact procedures are implemented and managed as required
  - 3.5 Formation member flight performances and appropriate reactions to problems are monitored
- 4 Manage abnormal and emergency situations**
- 4.1 Control of aircraft and formation when leading is maintained
  - 4.2 Abnormal or emergency situations affecting formation performance are identified and analysed
  - 4.3 Course/s of action to resolve abnormal or emergency situations are implemented and monitored
  - 4.4 Task workload and flight safety priorities are organised to ensure optimum outcome of the situation

## 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 but is not equivalent to AVIY4064A Lead an aircraft formation flight.

## Links

Companion Volume implementation guides are found in VETNet - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=4725260a-0af3-4daf-912b-ef1c2f3e5816>