



Australian Government

AVIY5065 Operate a multi-engine helicopter

Release: 1

AVIY5065 Operate a multi-engine helicopter

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 operate a multi-engine helicopter, in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority and national operating standards.

It includes operating a multi-engine helicopter in all phases of flight, managing engine failures and malfunctions, performing a rejected take-off with engine failure, and conducting a go-around or missed approach with an engine failure.

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

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.

1 Operate a multi-engine helicopter in all phases of flight

1.1 Normal multi-engine helicopter operations on ground and in flight are conducted in accordance with workplace procedures and the aircraft flight manual (AFM)/pilot's operating handbook (POH)

1.2 Single engine operations contingencies for all phases of flight are anticipated and planned for

1.3 Single engine operations contingency plan is briefed to crew members as required

2 Manage engine failure/malfunction

2.1 Control of helicopter is maintained and/or regained

2.2 Failed/malfunctioning engine is identified and confirmed

2.3 Power set on serviceable engine/s and helicopter configuration is adjusted to achieve desired aircraft performance

2.4 Failed/malfunctioning engine is managed

2.5 Decision to continue or abort approach/landing is made

2.6 Decision height for landing is nominated

2.7 Indicated airspeed is maintained at or above minimum level flight speed for one inoperative engine

2.8 Air traffic control (ATC) or another agency capable of assistance is advised of situation and intentions

2.9 Flight profile is flown from which a controlled landing could be achieved

2.10 Recovery to a suitable landing site is evaluated and conducted

3 Perform rejected take-off with engine failure

3.1 Requirement for a rejected take-off is recognised

3.2 Rejected take-off procedures are implemented

3.3 Contingency power on remaining engine/s is applied as required

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|-------------------------------------------------------------------|-----|----------------------------------------------------------------------------|
| | 3.4 | Controlled landing in rejected take-off distance available is performed |
| 4 Conduct go-around or missed approach with engine failure | 4.1 | Requirement for a go-around or missed approach is identified and confirmed |
| | 4.2 | Control of helicopter is maintained and/or regained |
| | 4.3 | Engine inoperative go-around is performed from decision height |

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 AVIY5065A Operate a multi-engine helicopter.

Links

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