



Australian Government

AVIY4057 Perform helicopter deck landing operations

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 perform helicopter deck landing operations, in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority and national operating standards.

It includes planning deck landing operations, conducting pre-flight briefings for deck landing operations, and taking off and transiting to and from a vessel. It also includes approaching and landing on vessel helidecks, taking off and climbing out from vessel helidecks, and managing abnormal and emergency situations during deck landing operations.

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 Plan deck landing operations

- 1.1 Tasking requirements are identified
- 1.2 Crew, role equipment and safety equipment necessary to ensure safe achievement of task are determined
- 1.3 Helicopter is certified for task in accordance with regulations and workplace procedures
- 1.4 Outbound and return flight loading and flight routes are planned
- 1.5 Security and care of passengers and/or equipment for deck landing operations are planned

2 Conduct pre-flight briefings for deck landing operations

- 2.1 Flight/ground crews and other relevant stakeholders are briefed on allocated duties
- 2.2 Weather suitability is determined and confirmed against workplace procedures and limitations
- 2.3 Briefs/self-briefs for deck landing operations are performed

3 Take off and transit to and from vessel

- 3.1 Appropriate take-off and departure configurations are selected
- 3.2 Helicopter is navigated to the rendezvous
- 3.3 Information regarding identified vessel's ability to receive aircraft is obtained
- 3.4 Vessel is instructed to manoeuvre to achieve optimum deck conditions for landing
- 3.5 Relative wind, ship pitch and roll information, hover heading and helideck location are obtained and acceptability is confirmed
- 3.6 Pre-descent checks are completed
- 3.7 Descent profile and circuit pattern are determined

4 Approach and land

- 4.1 Control manipulation, instrument scan and visual cues are used to manoeuvre aircraft safely during approach and

on vessel helideck	landing
4.2	Night interception of glide slope is carried out as required
4.3	Touch-down point and reference markers are identified and confirmed
4.4	Constant angle approach and landing is performed
4.5	Safe termination of approach and stable hover over helideck is performed
4.6	Helideck landing is performed
5 Take off and climb out from vessel helideck	5.1 Safety and security during deck operations is managed
	5.2 Stable hover over deck is established
	5.3 Obstacles are identified and avoided
	5.4 Instrument take-off under no horizon conditions is performed
	5.5 Instrument climb-out procedure is performed
6 Manage abnormal and emergency situations during deck landing operations	6.1 Abnormal and/or emergency situations are identified and confirmed
	6.2 Helicopter is controlled to maintain safe flight
	6.3 Abnormal or emergency situations are managed in accordance with workplace procedures, and aircraft flight manual (AFM)/pilot's operating handbook (POH)
	6.4 Aborted approach from final approach is performed
	6.5 Ditching and underwater escape procedures are applied as required

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 AVIY4057A Perform helicopter deck landing operations.

Links

Companion Volume implementation guides are found in VETNet -

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