



Australian Government

Assessment Requirements for AVIY4014 Take off helicopter and approach to hover

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.

Performance Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria on at least one occasion and include:

- adapting to differences in equipment and operating environment in accordance with standard operating procedures
- applying precautions and required action to minimise, control or eliminate identified hazards
- applying relevant helicopter aeronautical knowledge
- applying relevant legislation and workplace procedures
- communicating effectively with others when taking off helicopter and approaching to hover
- completing relevant documentation
- identifying and correctly using relevant equipment
- implementing contingency plans
- implementing work health and safety (WHS)/occupational health and safety (OHS) procedures and relevant regulations
- interpreting and following operational instructions and prioritising work
- interpreting/using a helicopter manufacturer height-velocity diagram/graph
- modifying activities depending on workplace contingencies, situations and environments
- monitoring and anticipating operational problems and hazards and taking appropriate action
- monitoring work activities in terms of planned schedule
- operating electronic communications equipment to required protocol
- reading, interpreting and following relevant regulations, instructions, procedures, information and signs
- reporting and/or rectifying identified problems promptly, in accordance with regulatory requirements and workplace procedures
- selecting and using relevant controls/equipment
- selecting and using required personal protective equipment conforming to industry and WHS/OHS standards
- solving problems associated with taking off a helicopter and controlling its approach to hover
- using instruments to monitor helicopter performance
- working collaboratively with others when taking off helicopter and approaching to hover
- working systematically with required attention to detail without injury to self or others, or damage to goods or equipment.

Knowledge Evidence

Evidence required to demonstrate competence in this unit must be relevant to and satisfy all of the requirements of the elements and performance criteria and include knowledge of:

- aerodynamic factors affecting helicopter flight performance
- air traffic requirements
- aircraft flight manual (AFM) and pilot's operating handbook (POH)
- aircraft performance
- aircraft systems
- aircraft weight and balance
- all pre- and after- take-off and pre- and after- landing checks
- application of a height/velocity diagram/graph
- avoidance and recognition of recovery techniques appropriate to helicopter type
- basic principles of aerodynamics
- CASR Part 61 Manual of Standards Schedule 3 Aeronautical Knowledge relevant to helicopter operations
- contributing operational situations and environmental conditions
- day visual flight rules (VFR) criteria
- factors affecting take-off and climb performance
- flapback
- functions and effects of all helicopter controls
- ground effect
- hazards and risks when taking off a helicopter and controlling its approach to hover and precautions for controlling the risks
- inflow roll
- local air traffic control procedures and instructions
- loss of tail rotor effectiveness (LTE)
- low 'g' force and mast bumping
- overpitching or low rotor speed (RRPM) – rotor stall
- problems that may occur when taking off a helicopter and controlling its approach to hover and appropriate action that should be taken in each case
- procedures for using performance charts
- purpose and functions of helicopter systems
- recirculation
- relevant sections of Civil Aviation Safety Regulations and Civil Aviation Orders
- relevant WHS/OHS and environmental procedures and regulations
- settling with power
- translational lift

- vortex ring state
- weight and balance.

Assessment Conditions

As a minimum, assessors must satisfy applicable regulatory requirements, which include requirements in the *Standards for Registered Training Organisations* current at the time of assessment.

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Assessment processes and techniques must be appropriate to the language, literacy and numeracy requirements of the work being performed and the needs of the candidate.

Assessment must occur in workplace operational situations. Where this is not appropriate, assessment must occur in simulated workplace operational situations that reflect workplace conditions.

Resources for assessment must include access to:

- a range of relevant exercises, case studies and/or simulations
- acceptable means of simulation assessment
- applicable documentation including workplace procedures, regulations, codes of practice and operation manuals
- relevant materials, tools, equipment and personal protective equipment currently used in industry.

Links

Companion Volume implementation guides are found in VETNet -

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