



Australian Government

Assessment Requirements for AVIY0089 Operate helicopter solo in the circuit area

Release: 1

Assessment Requirements for AVIY0089 Operate helicopter solo in the circuit area

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 (SOPs)
- 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
- 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
- lifting off helicopter, including the following:
 - setting flight controls correctly to prepare for lift-off to the hover at the location
 - using correct flight and power controls to lift helicopter off the surface to a stable hover at the appropriate hover height for the helicopter while controlling heading
 - anticipating and taking account of wind effect with appropriate control inputs to maintain position over hover point
 - demonstrating awareness of rotor downwash on surrounding aircraft, people, objects and environment
 - confirming the proper functioning of the flight controls and the centre of gravity and power required to hover are within limits
- 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, including throttle, rotor controls, anti-torque pedals, and collective and cyclic pitch controls
- selecting and using required personal protective equipment (PPE) conforming to industry and WHS/OHS standards
- setting local or area barometric pressure adjusted for sea level (QNH) at appropriate stages of flight
- solving problems when controlling a helicopter in hovering flight
- using instruments to monitor helicopter performance
- working collaboratively with others when controlling helicopter in hovering flight
- 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:

- aerodrome and helicopter landing site markings
- aircraft operational limitations
- application of a height/velocity graph
- calculation of aircraft performance for flight
- Civil Aviation Safety Regulation (CASR) Part 61 Manual of Standards Schedule 3 Aeronautical Knowledge relevant to helicopter operations
- dynamic rollover
- effect of wind on rotor blade control (blade sailing)
- effects of rotor wash
- ground resonance
- hazards and risks when controlling a helicopter in hovering flight and precautions for controlling the risks
- helicopter braking and steering systems
- helicopter hovering procedures
- hover checks
- how to use of fire extinguisher system fitted to helicopter being used
- landing a helicopter
- light and marshall signals
- local air traffic control (ATC) procedures
- local noise abatement procedures and curfews
- maintaining hovering flight in a range of operational conditions
- making a transition from static hover to sideways and rearward flight
- managing a mishandled landing
- managing a mishandled lift-off
- operating on different surfaces, including sealed and unsealed surfaces
- operational and start limitations of typical helicopters

- pre-take-off checks
- recirculation
- relevant helicopter/equipment characteristics
- relevant sections of aircraft flight manual (AFM)/pilot's operating handbook (POH)
- relevant sections of CASRs and Civil Aviation Orders
- relevant WHS/OHS and environmental procedures and regulations
- turning a helicopter around the mast.

Assessment Conditions

Assessors must hold credentials specified within the Standards for Registered Training Organisations current at the time of assessment.

Assessment must satisfy the Principles of Assessment and Rules of Evidence and all regulatory requirements included within the Standards for Registered Training Organisations current at the time of assessment.

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

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.

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 PPE currently used in industry.

Links

Companion Volume Implementation Guides are found in VETNet' -

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