



Australian Government

Assessment Requirements for AVIY4060 Pilot a helicopter during hoisting operations

Release: 1

Assessment Requirements for AVIY4060 Pilot a helicopter during hoisting operations

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 reporting procedures for identified problems that may occur when operating a helicopter during hoisting operations
- communicating effectively with others
- completing relevant documentation
- conducting pre-flight and post-flight hoisting operations briefings and debriefings including:
 - hoisting method considerations
 - unprepared helicopter landing sites
 - confined areas
 - unknown landing sites
 - pinnacles
 - embarked/sea platforms (as required)
 - marine environments (as required)
- following relevant legislation and workplace procedures
- identifying and assessing vertical, horizontal and relative spatial distances in relation to aircraft fuselage, rotor system, mission and/or operational stores and equipment with regard to potential obstacles to flight safety
- identifying and correctly using relevant equipment
- identifying and justifying a decision to operate a helicopter during hoisting operations
- identifying and managing abnormal and emergency situations in accordance with workplace procedures and the aircraft flight manual (AFM)/pilot's operating handbook (POH)
- implementing contingency plans
- implementing work health and safety (WHS)/occupational health and safety (OHS) procedures and relevant regulations
- interpreting hover performance and power available/power required from graphs/charts
- maintaining situational awareness

- managing abnormal and emergency situations during hoisting operations:
 - aircraft system failure or malfunction
 - hoisting equipment malfunction or failure
 - injury to hoisting personnel
 - degraded environmental conditions
- 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
- selecting and using required personal protective equipment conforming to industry and WHS/OHS standards
- solving problems associated with operating a helicopter during hoisting operations
- using instruments to monitor helicopter performance during hoisting operations
- working collaboratively with others
- 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:

- aircraft performance calculations (for all phases of flight)
- CASR Part 61 Manual of Standards Schedule 3 Aeronautical Knowledge relevant to helicopter hoisting operations
- communication procedure and terminology applicable to hoisting operations
- control effectiveness in all phases of flight
- engine performance checks for helicopter type to be flown
- flight rules and legislation applicable to hoisting operations
- functions and effects of all aircraft controls and instruments
- hazards that exist and problems that can occur when operating an aircraft during hoisting operations
- helicopter dimensions
- hoist limitations
- hoisting operation flight techniques:
 - low-level flight handling
 - deployment and recovery procedures

- abnormal and emergency handling techniques
- hoisting operational planning requirements:
 - hoisting method considerations
 - unprepared helicopter landing sites
 - confined areas
 - unknown landing sites
 - pinnacles
 - embarked/sea platforms
 - marine environments
- human factors applicable to hoisting operations:
 - crew coordination
 - dehydration and effects on pilot cognitive function
 - fatigue and situational awareness
 - stress and short-term, long-term impact
 - drugs including over-the-counter
 - spatial orientation and illusions
- in a Defence context, relevant Defence Orders and Instructions
- internal and external load limitations for helicopter type to be flown including weight and balance consideration
- meteorological requirements for hoisting operations
- operational inspections
- operational planning and risk management processes for hoisting operations
- pre- and post-flight inspection requirements
- principles of aerodynamics
- relevant sections of Civil Aviation Safety Regulations and Civil Aviation Orders
- relevant WHS/OHS and environmental procedures and regulations.

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>