



Australian Government

Assessment Requirements for AVIY0039 Conduct aerial application 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.

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:

- applying relevant aeronautical knowledge
- applying short field/strip landing and take-off techniques
- assessing airstrip/aerodrome suitability, including:
 - approach and landing direction
 - airstrip/aerodrome hazards
 - meteorological conditions
 - operational length
 - surface condition and restrictions
- assessing and checking aircraft and role equipment for flight serviceability
- assessing identified environmental hazard factors
- assessing own fitness for flight and planned operations
- assessing relevant wind velocity and direction
- compiling applicable maintenance documentation
- conducting pre-flight operational planning
- determining aircraft take-off weights relevant to strip length and operational conditions
- determining landing area suitability for normal and contingency operations
- determining relevant aircraft type suitability
- developing, amending and modifying application management plans
- establishing and implementing safe operating condition margins during aerial application operations
- establishing operational fuel requirements for normal and contingency operations
- flying aircraft to/from aerial application operating areas
- identifying aerial application hazards
- identifying logistical considerations for application management plan, including:
 - airstrip/aerodrome status
 - air traffic service requirements
 - ground support requirements
 - personal supplies and life support

- identifying potential contingency and alternate landing areas
- jettisoning full liquid load and maintaining aircraft control, including:
 - during take-off prior to lift-off
 - immediately after take-off
 - during flight and control pitch change to maintain altitude (+100/-0 ft) by adjustments of elevator and power
- reading, interpreting and following relevant regulations, instructions, procedures, information and signs
- setting local or area barometric pressure adjusted for sea level (QNH) at appropriate stages of flight.

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:

- aerial application human factors, including:
 - heat stress and dehydration
 - in-flight distractions
 - maintaining situational awareness
 - mental and physical fatigue
- aerial application role equipment
- aircraft configuration and flight characteristics for the aircraft being flown during maximum weight flight and load jettison operations
- aircraft flight manual, performance, engine and systems
- applicable regulations that relate to conducting a safe aerial application operation
- aviation risk and fatigue risk management processes
- Civil Aviation Safety Regulation (CASR) Part 61 Manual of Standards (MOS) Schedule 3 Aeronautical Knowledge relevant to aerial application operations
- Civil Aviation Safety Authority (CASA) exemptions with regards to maximum take-off weight and applicability of other aircraft limitations
- factors to be considered when determining payload weights for aerial application
- flight control and throttle actions required to maintain control of aircraft being flown when jettisoning a full load
- global navigation satellite system (GNSS) equipment and operator procedures
- low-level flight safety hazards and risks
- meteorological factors affecting aircraft flight performance during low-level flight
- relevant aerodynamics and aircraft performance
- terrain following techniques.

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 personal protective equipment (PPE) currently used in industry.

Links

AVI Training Package Companion Volume Implementation Guide available on VET Net: - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=4725260a-0af3-4daf-912b-ef1c2f3e5816>