



**Australian Government**

**Assessment Requirements for AVIW0007  
Perform aerial mapping and modelling  
using remote piloted aircraft systems**

**Release: 1**

# Assessment Requirements for AVIW0007 Perform aerial mapping and modelling using remote piloted aircraft systems

## 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
- 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 relevant aircraft type suitability
- developing, amending and modifying mapping and modelling plans
- establishing and implementing safe operating condition margins during aerial mapping and modelling operations
- establishing operational power requirements for normal and contingency operations
- identifying aerial mapping and modelling hazards
- identifying logistical considerations for management plan
- identifying potential contingency and alternate landing areas
- reading, interpreting and following relevant regulations, instructions, procedures, information and signs.

## 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 human factors, including:
  - heat stress and dehydration
  - in-flight distractions
  - maintaining situational awareness
  - mental and physical fatigue
- aerial mapping and modelling role equipment
- applicable regulations that relate to conducting a safe aerial mapping and modelling 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
- factors to be considered when determining payload weights for aerial application
- 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>