



**Australian Government**

# **Assessment Requirements for AVIY0033 Operate aircraft using aircraft flight instruments**

**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, performance criteria and range of conditions 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 legislation and workplace procedures
- communicating effectively with others
- compensating for secondary effects of controls
- completing relevant documentation
- controlling aircraft by reference to artificial horizon and gyro compass
- identifying and correctly using relevant equipment
- implementing contingency plans
- implementing work health and safety (WHS) procedures and relevant regulations
- interpreting and following operational instructions and prioritising work
- maintaining compliance with regulatory requirements
- maintaining orientation under simulated instrument flight conditions
- modifying activities dependent 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
- performing manoeuvres and procedures solely by use of instrument panel, including:
  - full instrument panel procedures
  - limited instrument panel procedures
- reading, interpreting and following relevant regulations, instructions, procedures, information and signs
- reporting or rectifying identified problems promptly by referring to instrument panel
- selecting and using required personal protective equipment (PPE) conforming to industry and WHS standards
- setting local or area barometric pressure adjusted for sea level (QNH) at appropriate stages of flight

- using instrument scan techniques applicable to flight condition
- 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, performance criteria and range of conditions and include knowledge of:

- anti-icing and de-icing controls and switches fitted to aircraft type
- attitude and power requirements to achieve specified flight profiles
- Civil Aviation Safety Regulation (CASR) Part 61 Manual of Standards (MOS) Schedule 3 Aeronautical Knowledge relevant to instrument flight operations
- flight instrument performance tolerances for instrument meteorological condition (IMC) flights
- functions and effects of all aircraft controls
- hazards that exist when controlling an aircraft by reference to instrument panel and related risk control processes
- human factors applicable to instrument panel operating procedures, including:
  - full instrument panel
  - limited instrument panel
- in a Defence context, relevant Defence Orders and Instructions
- instrument panel failure cautions, warning and indication systems and appropriate response techniques
- instrument panel scan techniques
- meteorological conditions impacting instrument flight procedures
- operation of flight instruments and pitot/static system
- operation, function and limitations of flight instruments and instrument power sources
- performance instrument indications and power requirements to achieve specified flight profiles
- pitot, airframe and carburettor icing and prevention/removal procedures
- principles of aerodynamics
- unusual aircraft attitudes
- problems that may occur when controlling an aircraft by reference to full instrument panel and action that should be taken in each case
- relevant sections of CASRs and Civil Aviation Orders
- relevant WHS and environmental procedures and regulations
- safety risks associated with application of large or rapid control inputs in more than one axis simultaneously
- scan techniques appropriate to fitted flight instruments and phase of flight, including:
  - with attitude and stabilised heading indicators
  - without attitude and stabilised heading indicators.

## 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.

Performance must be assessed in one or more of the following:

- single engine aircraft
- multi-engine aircraft
- synthetic training device approved by appropriate authority
- fixed wing
- helicopter
- other commercial or military aircraft

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

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