



Australian Government

Assessment Requirements for AVIH0001 Manage aircraft flight planning and performance as pilot in command

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:

- accessing all relevant flight planning and performance data
- allocating task priorities to achieve operational requirements
- applying active listening techniques
- applying relevant aeronautical knowledge
- briefing flight and ground crew
- clarifying crew roles and functions
- clarifying problems and making informed decisions
- communicating effectively with others
- completing checklists and writing reports
- completing routine administrative tasks
- confirming flight route
- delegating tasks to appropriate flight or ground crew personnel
- implementing work health and safety (WHS)/occupational health and safety (OHS) procedures and relevant regulations
- interpreting and responding to air traffic control (ATC) requests and clearances
- interpreting flight information
- interpreting weather and meteorological data
- keeping accurate flight planning and flight performance records
- implementing contingency plans
- implementing work health and safety (WHS)/occupational health and safety (OHS) procedures and relevant regulations
- maintaining control of aircraft during:
 - normal operations
 - abnormal situations
 - emergency situations
- managing flight planning and performance record keeping
- managing fuel during all phases of flight
- managing inflight medical emergencies
- managing non published approach procedures

- managing situational awareness during all phases of flight
- monitoring operational outcomes and evaluating flight performance
- monitoring weather during all phases of flight
- programming flight management systems as required
- programming navigation systems
- reading, interpreting and following relevant regulations, instructions, procedures, information and signs
- taking initiative and responding to changing conditions
- using all forms of aviation communications equipment
- using radio navigation techniques.

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 include knowledge of:

- advanced aircraft aerodynamics
- advanced navigation techniques relevant to air transport pilots:
 - navigation charts
 - time zones
 - flight instruments
 - compasses
 - radiowave propagation
 - radio navigation aids
 - route navigation
 - basic radar principles
- aerodrome layout including runways
- aeronautical information service
- aeronautical competency standards relevant to air transport pilots
- aeronautical knowledge standards relevant to air transport pilots
- air defence identification zones (ADIZ)
- automatic flight control systems
- CASR Part 61 Manual of Standards Schedule 3 Aeronautical Knowledge relevant to air transport operations
- checklists to assist with cockpit preparation
- contingency planning
- dangerous goods compliance
- descent and arrival preparation and procedures
- emergency equipment

- emergency landing processes and procedures
- extended twin operations (ETOPS):
 - adequate airport
 - suitable airport
 - auxiliary power unit
 - ETOPS configuration
 - extended range operations
 - extended range entry point
 - fail-safe
 - inflight shutdown
 - airworthiness
 - 60 minute operation
 - 120 minute operation
 - 180 minute operation
 - minimum equipment list
 - weather
 - fuel
 - operational practices and procedures
 - flight planning
 - one engine inoperative performance
 - all engines operating performance
 - drift down
 - cruise altitude, and coverage at 10,000 feet
 - holding
 - altitude capability
 - missed approach
 - en route alternate airport requirements
 - minima
 - precision and non-precision approaches
 - fuel and oil supply
 - non-standard atmospheric conditions
- fixed radius paths
- flight management systems
- flight planning and flight monitoring:
 - responsibilities
 - delegation of authority
 - determining take-off limits
 - weight and balance calculations
 - route selection and altitudes
 - fuel plan preparation

- navigation plan preparation
- inflight computations, revisions or replanning
- interpretation of maps and symbols
- interpretation of ATC requirements
- calculation of critical points including equi-time point (ETP) and point of no return (PNR)
- flight planning and performance recording systems
- fly-by turns
- fuel management
- ground based augmentation systems (GBAS)
- ground based regional augmentation systems (GRAS)
- hand over and take over protocols
- holding pattern
- instrument approach types:
 - 2D approaches
 - 3D approaches
- instrument meteorological conditions
- instrument navigation charts
- missed approach minima and go-around considerations
- operational planning requirements:
 - flight planning
 - alternate aerodrome requirements
 - holding fuel requirements
 - night visual flight rules (NVFR) operational requirements
 - planned/alternate destination weather conditions below minima
 - receiver autonomous integrity monitoring (RAIM) prediction implications
- performance based navigation (PBN):
 - PBN principles
 - area navigation (RNAV) required navigation performance (RNP) capability
 - core components
 - navigation system performance requirements
 - performance monitoring and alerting
 - RNP specifications and system requirements
 - RNP navigation system errors
 - RNP leg types
 - RNP leg transitions
 - RNP navigation authorisation requirements
 - GNSS receiver requirements for RNP APCH operations
 - GNSS receiver mode conditions and actions for RNP APCH
 - RNP instrument approach requirements
 - augmented and non-augmented approaches

- interpret IAP charts for minima information and operational restrictions
- validity and accuracy of QNH for RNP APCH types
- RNP approach differentiation
- space based augmentation systems (SBAS)
- APV Baro-VNAV instrument approach charts
- vertical guidance information and operational considerations
- Baro-VNAV vertical guidance principles
- performance management of both flight and crew
- processes for managing engine failure in flight
- pre-flight considerations:
 - aircraft equipment fits
 - aircraft exemptions
- rationale and process for rejected take-off
- role and purpose of flight crew briefings
- rules of the air and air traffic services
- safety considerations and planning factors relevant to visual and instrument flight planning
- satellite-based augmentation systems (SBAS)
- standard instrument arrival procedures
- standard instrument departure procedures
- take-off procedures
- taxi procedures
- upwind, crosswind and downwind take-offs
- weight and balance for various aircraft configurations.

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>