



Australian Government

**Assessment Requirements for AVIY0042
Apply aeronautical knowledge and civil air
law to flight dispatch 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

- applying aeronautical knowledge during flight planning and flight dispatch activities
- applying civil air law during flight planning and flight dispatch activities
- applying knowledge of aircraft operations, performance and planning
- applying knowledge of aviation navigation charts
- applying knowledge of basic aircraft power plants and systems
- identifying international and national aviation organisations and applicable legislation affecting aircraft operation
- reading, interpreting and following relevant regulations, instructions, procedures, information and signs
- utilising aviation terminology.

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:

- aeroplane power plants and aircraft systems, including:
 - air-conditioning and cabin pressurisation systems
 - automatic flight control systems
 - auxiliary power units
 - barometric flight instruments
 - communications systems
 - constant speed units
 - direct reading magnetic compass
 - electrical and ignition systems
 - engine cooling devices
 - engine systems
 - fire protection, detection and warning systems
 - fuel system components
 - gyroscopic flight instruments

- hydraulic system components
- ice and rain protection
- lubrication system
- propellers
- retractable undercarriage system components
- stall warning devices
- aerodynamic theory, including:
 - terminology
 - Bernoulli's theorem and Coanda theory
 - power requirements
 - manoeuvres
 - performance considerations
 - changes in angle of attack
 - aerodynamic design features
 - lift and drag
 - flight controls and effects
 - climb performance factors
 - descent performance factors
 - turning performance factors
 - stalling, spinning and spiral dives
 - stability and control
 - taxi, take-off and landing
 - effects of structural damage on aircraft performance
- aircraft minimum equipment list (MEL), including:
 - general description
 - use of the MEL by flight dispatchers
 - use of the MEL by maintenance
 - use of the MEL by flight crew
- aircraft operations, performance and planning
- aviation navigation charts
- aviation terminology
- basic aircraft power plants and systems
- domestic civil aviation laws, acts and statutes
- domestic Civil Aviation Safety Regulations (CASRs), orders and instruments
- flight instruments
- relevant WHS and environmental procedures and regulations
- international civil aviation conventions, including:
 - historical significance
 - contracting states
 - sovereignty of airspace

- rights of commercial flight over contracting states/territories
- issues concerning travelling public
- issues concerning the state/territory
- issues concerning the aircraft manufacturer
- issues concerning the operator
- issues concerning flight crew members
- issues concerning dispatchers
- international civil aviation laws, acts and statutes
- International Civil Aviation Organization (ICAO), including:
 - historical significance
 - annexes to the convention and application
 - publications, Procedures for Air Navigation Services (PANS) and technical publications
 - air navigation plans
 - state/territory responsibility of air worthiness
 - operator responsibility for maintenance of aircraft air worthiness
 - operator responsibility for loading data
- operations and performance, including:
 - take-off and landing performance
 - aeroplane limitations
- operators authority to engage in types of specific air transport operations:
 - categories
 - routes and frequency
 - area of operation
 - terminal, alternate and emergency airports
 - aircraft types, navigation and communication systems
- operations manual (OM), including:
 - authority of the OM
 - format
- relevant sections of CASRs and Civil Aviation Orders pertaining to flight dispatcher functions
- regulatory provisions of a flight manual, including:
 - flight manual authority
 - content, structure and approval
- state/territory-based requirements, including:
 - managerial and technical competencies
 - qualifications, training and competency
 - financial resources
 - equipment
 - maintenance
 - flight manuals

- OMs
- audit requirements
- operational control
- duty and flight time limitations.

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>