

AVIY5048Y Provide approach control services

Modification History

Release 3. This is the third release of this unit of competency in the AVI Aviation Training Package Release 10.

Release 2. ISC upgrade - a statement relevant to Defence Aviation has been added to the Application of the unit.

Release 1. This is the first release of this unit of competency in the AVI Aviation Training Package.

Application

This unit involves the skills and knowledge required to provide approach control services during air traffic control operations, in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority and national operating standards.

It includes managing terminal airspaces and assuring separation.

This unit is applied to specific terminal airspaces that offer varying levels of air traffic services according to the International Civil Aviation Organization (ICAO) and national classifications of airspaces.

This unit addresses aviation technical skill requirements (physical, mental and task-management abilities) related to air traffic control duties that complement the non-technical skills of air traffic controllers, and contribute to safe and effective performance in complex aviation operational environments.

Operations are conducted as part of commercial and military air traffic services across a variety of operational contexts within the Australian aviation industry.

Work is performed independently or under supervision as a single operator or within a team environment.

Licensing, legislative, regulatory or certification requirements are applicable to this unit.

Use for Defence Aviation is to be in accordance with relevant Defence Orders, Instructions, Publications and Regulations.

Pre-requisite Unit

Not applicable.

Competency Field

Y – Aircraft Operation and Traffic Management

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

1 Manage terminal airspaces

PERFORMANCE CRITERIA

Performance criteria describe the performance needed to demonstrate achievement of the element.

- 1.1 Traffic priorities are applied in accordance with standard operating procedure
- 1.2 Service priorities are applied in accordance with that which is most safety critical
- 1.3 Hazards are identified, risks are assessed and risk controls are implemented
- 1.4 Control practices and procedures are adjusted in accordance with changing airspace environment factors
- 1.5 Systematic scan technique of terminal airspace and air routes is maintained
- 1.6 Standard routing is facilitated
- 1.7 Documented instructions and agreements applicable to the area of jurisdiction are applied
- 1.8 Non-compliance with control instructions and procedures is recognised and addressed
- 1.9 Terrain and obstacle clearance is provided
- 1.10 Pilot preferred altitudes or flight levels are facilitated
- 1.11 Aircraft are authorised to use terminal airspaces
- 1.12 Control services are provided in accordance with airspace classification and status
- 1.13 Airspaces are administered in accordance with user activity

- 1.14** Flight deviations and diversions are facilitated
 - 1.15** Suitable runway mode is negotiated with aerodrome control
 - 1.16** Aircraft release for departure is authorised in accordance with runway mode and airspace configuration
 - 1.17** Aircraft approach to land is authorised in accordance with runway mode and airspace configuration
- 2 Assure separation**
- 2.1** Conflicts are recognised and resolved
 - 2.2** Separation is provided
 - 2.3** Jurisdiction for maintaining aircraft separation is agreed and assigned
 - 2.4** Alternative separation is provided as required
 - 2.5** Separation is adjusted when systems are degraded or airways facilities are reduced
 - 2.6** Most appropriate separation is applied taking into account safety, expedition, control method and surveillance
 - 2.7** Compromised separation is recognised and addressed

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Range is restricted to essential operating conditions and any other variables essential to the work environment.

Non-essential conditions can be found in the Companion Volume Implementation Guide.

Unit Mapping Information

This unit replaces and is equivalent to AVIY5048A Provide approach control services.

Links

AVI - Aviation Training Package Companion Volume Implementation Guide at: [sector webpage link here]

DRAFT

Assessment Requirements for AVIY5048Y Provide approach control services

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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:

- adhering to procedures
- adjusting route and track of aircraft
- allocating attention based on priorities
- applying precautions and required actions to minimise, control or eliminate identified hazards
- applying reasoning and decision making to airspace and flight path scenarios
- assigning separation to pilot
- communicating effectively with others
- completing relevant documentation for approaching control services
- coordinating flight information
- executing control actions
- facilitating in-flight deviations, diversions, changes of altitude and flight level
- facilitating unusual flight operations
- formulating airways clearance and control instructions
- formulating and authorising approach to land for aircraft
- formulating and authorising release of aircraft for departure
- implementing contingency plans
- interpreting and evaluating current traffic events
- interpreting and following operational instructions, and prioritising work
- maintaining a strategic traffic management plan for airspace jurisdiction
- maintaining surveillance of terminal airspaces
- operating equipment in accordance with standard operating procedures
- perceiving and comprehending incoming information
- performing handover/takeover
- planning and prioritising tasks in accordance with safety imperative
- processing military aircraft

- projecting and developing future airspace and flight path scenarios
- recognising display information and symbology
- recording and annotating flight information and messages
- reporting and rectifying identified problems promptly
- responding to stressful situations with a considered and measured approach
- separating aircraft using approach control techniques and standards
- varying heading of aircraft
- varying speed of aircraft
- working collaboratively with others
- working systematically with attention to detail.

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:

- air navigation systems and visual aids
- air traffic priorities
- air traffic services
- airborne collision and avoidance systems
- aircraft conflict resolution techniques
- aircraft type, associated wake turbulence and performance categories
- airspace service priorities and safety imperatives
- approach control separation standards and techniques
- characteristics of terminal airspace air traffic patterns and traffic flows
- charts and operational documentation
- communication phraseologies and procedures
- compromised separation and non-compliant use of airspaces
- conditional air traffic clearance
- coordination requirements
- departure and approach to land procedures
- display information and symbology
- division of responsibilities for air traffic services
- formation flight configurations, separation and procedures and practices
- handover/takeover procedures and practices
- human machine interface (HMI) states and associated interactions
- jurisdiction and adjacent airspace characteristics
- meteorological documentation, terms and definitions,
- military flight operations
- national airspace system and standard route structure
- navigation principles and terminology
- organisational and licensing administration
- principles and procedures of altimetry
- principles of threat and error management

- principles of flight
- procedures for recording and annotating operational information
- provision of air traffic services and air traffic flow management during system degradation including facility failures and restoration of system components
- relevant sections of regulatory and operational documentation
- route, track, heading and aircraft performance characteristics
- rules of the air governing visual and instrument flight
- safety occurrence reporting
- security against acts of unlawful interference with aviation
- terrain and prominent landmarks affecting flight operations within terminal airspace
- terrain protection
- transfer of control points
- transition from instrument flight to visual flight
- weather phenomena affecting flight operations.

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
- relevant and appropriate materials, tools, equipment and personal protective equipment currently used in industry
- applicable documentation including workplace procedures, regulations, codes of practice and operation manuals
- acceptable means of simulation assessment.

Links

AVI - Aviation Training Package Companion Volume Implementation Guide at: [sector webpage link here]