

AVIY5049Y Provide area 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 area 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 enroute airspaces and assuring separation.

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

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 enroute 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 according to in accordance with that which is most safety critical
- 1.3 Control practices and techniques are adapted to changing airspace environment factors
- 1.4 Hazards are identified, risks are assessed and risk controls are implemented
- 1.5 Systematic scan technique of airspaces and air routes is maintained
- 1.6 Standard routing is facilitated
- 1.7 Preferred routing is facilitated
- 1.8 Documented instructions and agreements applicable to jurisdictional area are applied
- 1.9 Non-compliance with control instructions and procedures is recognised and addressed
- 1.10 Terrain and obstacle clearance is provided
- 1.11 Pilot requested altitudes and flight levels are facilitated
- 1.12 Aircraft are authorised to use enroute airspaces
- 1.13 Control services are provided in accordance with airspace classification and status
- 1.14 Airspaces are administered in accordance with user activity
- 1.15 Flight diversions or deviations are facilitated

- 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 provided taking into account safety, expedition and the method of control 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 AVIY5049A Provide area control services.

Links

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

Assessment Requirements for AVIY5049Y Provide area 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:

- adapting appropriately to cultural differences in the workplace, including modes of behaviour and interactions with others
- adhering to procedures through a series of steps followed in a regular definite order or as required, a traditional or established way of doing things
- adjusting route and track of aircraft
- allocating attention in accordance with priorities
- anticipating and preparing for work tasks
- applying an error management attitude that limits unintentional deviation from work practices and maintains accuracy through a disciplined approach to implementing procedures and practices, and a methodical work ethic
- applying human reasoning to airspace and flight path scenarios
- applying precautions and required action to minimise, control or eliminate identified hazards
- communicating effectively with others
- completing relevant documentation
- coordinating air traffics services effectively
- executing control actions
- facilitating in-flight deviations, diversions and changes of altitude and flight level
- formulating airways clearance and control instruction
- implementing contingency plans
- implementing decisions using knowledge-based, rule-based and skill-based activities
- implementing work health and safety (WHS)/occupational health and safety (OHS) procedures and relevant regulations
- interpreting and evaluating current traffic events
- interpreting and following operational instructions and prioritising work
- interpreting charts and operational documentation associated with air traffic services
- maintaining a strategic traffic management plan for the airspace jurisdiction

- maintaining surveillance of enroute airspaces
- maintaining speed control
- operating equipment in accordance with standard operating procedures
- perceiving and comprehending incoming information
- processing military aircraft
- projecting and predicting future traffic scenarios
- reporting and rectifying identified problems promptly
- recording and annotating flight information and messages
- responding to stressful situations with a considered and measured approach
- scanning the human machine interface (HMI)
- separating aircraft using area control techniques and standards
- separating aircraft using wake turbulence standards
- vectoring 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 and performance criteria and include knowledge of:

- air navigation systems and visual aids
- air traffic priorities
- air traffic services
- airborne collision and avoidance systems
- aircraft performance characteristics
- aircraft type associated wake turbulence and performance categories
- airspace service priorities and the safety imperative
- area control separation standards and techniques
- characteristics of enroute sector air traffic patterns and traffic flows including critical positions/hot-spots
- charts and operational documentation
- communication phraseologies and procedures
- compromised separation and non-compliant use of airspaces
- coordination requirements
- departure and approach to land procedures
- division of responsibilities for air traffic services
- formation flight configurations, separation and procedures and practices
- handover/takeover procedures and practices
- interpret charts and operational documentation associated with air traffic services
- 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
- preferred routing
- principles and procedures of altimetry
- 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
- rules of the air governing visual and instrument flight
- safety occurrence reporting
- standard routing
- terrain and prominent landmarks affecting flight operations within enroute airspace
- terrain protection
- transfer of control points
- transition from instrument flight to visual flight conditions
- 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

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