

AVIY5022Y Manage traffic flow

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 application of skills and knowledge required to manage traffic flow during air traffic control (ATC) operations, in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority and national operating standards.

It includes managing traffic flow safely, establishing traffic sequences, and providing traffic flow adjustments.

Air traffic flow management (ATFM) is established and managed using automated systems or by manual determination, to support ATC in ensuring an optimum flow of air traffic to, from, through or within defined areas during times when demand or expected demand exceeds system capacity.

If automated systems are used, human reasoning should be applied to ensure safety and the most suitable flow of traffic, particularly in times of adverse weather and/or emergency and abnormal flight operations.

This unit addresses aviation technical skill requirements (physical, mental and task\management abilities) related to ATC duties that complement the nontechnical 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 traffic flow safely

PERFORMANCE CRITERIA

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

1.1 ATFM is established

1.2 Safety is prioritised when managing traffic flow, including when responding to changed conditions

1.3 Traffic flow is managed and changed conditions are responded to in a timely manner, in accordance with the situation

1.4 Hazards are identified, risks are assessed and risk controls are implemented

2 Establish traffic sequence

2.1 Traffic order is established in accordance with runway mode and/or airspace configuration

2.2 Traffic sequence is monitored and adjustments to traffic flow are made as required

2.3 Instructions to regulate traffic flow and to maintain safety are issued

3 Provide traffic flow adjustments

3.1 Circumstances where delaying actions are required and their causes, are accurately identified

3.2 Air traffic clearances are withheld or instructions are imposed to achieve required delay

- 3.3** Delaying actions are cancelled or relaxed as required and instructions are issued for onwards flight

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 AVIY5022B Manage traffic flow.

Links

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

Assessment Requirements for AVIY5022Y Manage traffic flow

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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 routing and tracking of aircraft
- advising aircraft of delays
- allocating attention according to demand and task managing:
- human machine interface (HMI) or equipment use
- air traffic communications
- traffic flow
- applying reasoning and decision making to airspace and flight path scenarios
- communicating effectively with others
- conducting holding of aircraft and onwards processing
- formulating and issuing onwards airways clearances, conditional clearances and clearance limits
- identifying and applying precautions and required action to minimise, control or eliminate identified hazards
- implementing contingency plans
- managing traffic flow safely:
 - by day and night
 - in variable weather conditions
- prioritising tasks and managing workload
- projecting and planning airspace, traffic and flight path scenarios.

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:

- aerodrome runway combinations and traffic requirements

- air traffic clearances to hold, delay, limit and continue flight
- air traffic control (ATC) principles
- aircraft performance characteristics
- airspace geography and topography
- airspace, route structures and procedures used to assist strategic air traffic flow management
- area of radar coverage
- classification and special use airspace
- conditional air traffic clearance
- contingency plans including for reduced facilities and degraded systems
- interpret airspace charts and instrument flight procedures including holding patterns
- interpret meteorological data
- non-published aircraft holding techniques
- relevant sections of regulatory and operational documentation
- reporting procedures
- role of air traffic flow management (ATFM)
- roles and responsibilities for managing air traffic flow
- safety hazards, risks and related risk control procedures and precautions
- systems and tools used for air traffic flow management
- traffic management techniques.

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]

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