



Australian Government

AVIZ5049 Manage situational awareness in the air traffic control environment

Release: 3

AVIZ5049 Manage situational awareness in the air traffic control environment

Modification History

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

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 manage situational awareness during air traffic control (ATC) operations in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes establishing and maintaining situational awareness and contributing to team situational awareness.

This unit addresses aviation non-technical skill requirements (mental, social and personal-management abilities) related to ATC duties that complement the 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

Z – Situation Awareness

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

Elements describe the essential outcomes.

PERFORMANCE CRITERIA

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

1 Establish and maintain situational awareness

- | | |
|------------|---|
| 1.1 | Status of the ATC environment is established |
| 1.2 | Incoming information is accurately perceived |
| 1.3 | Pertinent information and elements are comprehended and prioritised |
| 1.4 | Elements within the ATC environment are projected and consequences are established |
| 1.5 | ATC environment is monitored, and status of elements is updated |
| 1.6 | Loss of situational awareness is identified, and actions are taken to recover situational awareness |

2 Contribute to team situational awareness

- | | |
|------------|---|
| 2.1 | Team situational awareness is established and monitored |
| 2.2 | Hazards are identified, risks are assessed, and risk controls are implemented |
| 2.3 | Required information is recognised and shared |

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 AVI Aviation Training Package Companion Volume Implementation Guide.

Unit Mapping Information

This unit is equivalent to AVIZ5049A Manage situational awareness in the air traffic control environment.

Links

Companion Volume Implementation Guides are found in VETNet' -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=4725260a-0af3-4daf-912b-ef1c2f3e5816>

Assessment Requirements for AVIZ5049 Manage situational awareness in the air traffic control environment

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.

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:

- applying precautions and required actions to minimise, control or eliminate identified hazards
- applying reasoning and decision making to airspace and flight path scenarios
- communicating effectively with others
- completing relevant documentation
- implementing contingency plans
- interpreting and following operational instructions and prioritising work
- maintaining a strategic traffic management plan
- making decisions related to managing situational awareness in the air traffic control (ATC) environment
- operating equipment in accordance with standard operating procedures (SOPs)
- perceiving and comprehending incoming information
- prioritising tasks to regulate workload
- projecting and developing future airspace and flight path scenarios
- reporting and/or rectifying identified problems promptly
- responding to stressful situations with a considered and measured approach
- 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:

- aircraft performance characteristics
- ATC environment
- duty of care

- factors affecting individual and team situational awareness
- loss of situational awareness identifiers
- loss of situational awareness prevention techniques
- principles of effective ATC
- relevant sections of regulatory and operational documentation
- situational awareness recovery techniques
- techniques for establishing and maintaining situational awareness.

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.

As a minimum, assessment must satisfy applicable regulatory requirements, which include requirements in the Standards for Registered Training Organisations current at the time of assessment.

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 (PPE) 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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