



Australian Government

AVIF0016 Manage network data links

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.

Application

This unit involves the skills and knowledge required to set up and monitor networks and data links with unmanned aircraft systems beyond visual line of sight (BVLOS) in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and international aviation operating standards.

It includes maintaining aviation communication and data links, managing routine and emergency airborne situations.

This unit addresses aviation technical skill requirements (physical, mental and task-management abilities) related to aircraft operational duties of flight dispatch and flight operations support personnel, and contributes to safe and effective performance in complex aviation operational environments.

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

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

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

Pre-requisite Unit

Not applicable.

Competency Field

Y – Aircraft Operations and Traffic Management

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS

PERFORMANCE CRITERIA

Elements describe the essential outcomes.

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

1 Set up aviation networks and data links

- 1.1** The extent of the network to be set up is determined from flight plan and/or in consultation with appropriate persons.
- 1.2** Data network links are set up using a range of appropriate transmitting and receiving methods and protocols
- 1.3** Consideration is given to the technical factors that will have an impact on the network connections
- 1.4** Risk management strategies are determined with relevant team members where available

2 Maintain aviation networks and data links

- 2.1** Data network links are monitored and maintained throughout flight support activities using a range of appropriate transmitting and receiving methods and protocols
- 2.2** Voice and data communication links with emergency response agencies are monitored and maintained throughout flight using a range of appropriate transmitting and receiving methods and protocols
- 2.3** Aircraft position information and reports are routinely monitored and data communication links within flight support monitoring systems updated
- 2.4** Aircraft communication links are continuously monitored and appropriate voice and data communication failure response plans are implemented

3 Manage unanticipated airborne situations

- 3.1** Unanticipated severe weather penetration effects are evaluated against flight plan and amendments are made
- 3.2** High terrain transit performance calculations and effects on flight performance are addressed

4 Manage contingencies with networks beyond visual line of sight

- 4.1** Overdue position reports are responded to in accordance with regulatory and workplace requirements
- 4.2** Overdue at destination response actions are implemented in accordance with regulatory and workplace requirements

- 4.3 Contingency plans for aircraft power exhaustion are implemented and coordination with emergency response agencies is maintained
- 4.5 Unlawful interference with aviation and aircraft flight safety is identified and managed in accordance with regulatory and workplace requirements
- 4.6 Emergency landing procedures are implemented during aircraft emergency situations
- 4.7 Coordination and liaison with retrieval crew is maintained during aircraft emergency situations

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.

Unit Mapping Information

No equivalent unit.

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>