



Australian Government

AVIW0001 Operate and manage advanced remote pilot aircraft systems

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 operate and manage advanced unmanned aircraft systems (RPAS) beyond visual line of sight (BVLOS) in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes operating and managing aircraft systems during normal flight and managing aircraft systems during abnormal and emergency procedures.

This unit addresses aviation technical skill requirements (physical, mental and task-management abilities) related to equipment and system operations of flight or ground operations 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 within a single-pilot or multi-crew environment.

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

Pre-requisite Unit

Not applicable.

Competency Field

W – Equipment and Systems Operations

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 Operate and manage advanced aircraft systems during normal flight

- 1.1** Aircraft systems, sub-systems (equipment) and devices are operated and managed
- 1.2** Aircraft systems, sub-systems (equipment) and devices are monitored using a systematic scan technique
- 1.3** Aircraft systems and flight environment information is analysed to identify actual and potential threats or errors
- 1.4** Automated aircraft systems are utilised to manage workload
- 1.5** Hazards are identified, risks are assessed and hazard management implemented
- 1.6** Checklist procedures are completed as appropriate to aircraft system

2 Manage advanced aircraft systems during abnormal and emergency procedures

- 2.1** Non-normal or emergency situations are recognised
- 2.2** Control of aircraft flight path is maintained during abnormal and emergency response procedures
- 2.3** Affected aircraft system or sub-system is identified and confirmed
- 2.4** Checklist procedures are implemented during abnormal and emergency situations using appropriate techniques
- 2.5** Appropriate non-normal or emergency procedures are performed in accordance with relevant workplace and emergency procedures, and regulatory requirements
- 2.6** Course of action is decided, implemented, evaluated and revised to achieve safest outcomes
- 2.7** Location and operation of emergency systems applicable to aircraft type are identified

Foundation Skills

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

Range of Conditions

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>