



Australian Government

AVIW3038 Operate and manage remote pilot aircraft systems

Release: 1

AVIW3038 Operate and manage remote pilot aircraft systems

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 remote pilot aircraft systems (RPAS), in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes operating and managing RPAS during normal flight, and managing RPAS 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 recreational, 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 RPAS 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

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.

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|---|---|
| 1 Operate and manage RPAS during normal flight | 1.1 RPAS, sub-systems and devices are operated to achieve operational requirements
1.2 RPAS, sub-systems and devices are monitored using a systematic scan technique
1.3 RPAS and flight environment information is analysed to identify actual and potential threats or errors
1.4 RPAS automation is utilised to manage control station workload
1.5 Checklist procedures are implemented during normal RPAS operations |
| 2 Manage RPAS during abnormal and emergency procedures | 2.1 Abnormal or emergency situations are identified, diagnosed and communicated
2.2 RPAS control is maintained at all times
2.3 RPAS abnormal or emergency checklist procedures are implemented to maintain safety of flight
2.4 Course of action is decided, implemented, evaluated and revised to achieve safest outcomes
2.5 Location and operation of emergency systems applicable to RPAS are explained |

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.

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| Flight environment information must include one or more of the | <ul style="list-style-type: none"> • head up display suitable for flight • RPAS control systems suitable for flight indications including height, speed, direction and location |
|--|---|

following:

Unit Mapping Information

This unit replaces and is equivalent to AVIW3038A Operate and manage remote pilot aircraft systems (RPAS).

Links

Companion Volume implementation guides are found in VETNet -

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