AVIY0027 Operate multi-rotor 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 multi-rotor 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 multi-rotor RPAS during normal flight and 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.

Pre-requisite Unit

Not applicable.

Competency Field

Y – Aircraft operation

Unit Sector

Not applicable.

Elements and Performance Criteria

ELEMENTS	PERFORMANCE CRITERIA
Elements describe the essential	Performance criteria describe the performance needed to

outcomes.

demonstrate achievement of the element.

1	Operate and manage multi-rotor 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	Aircraft and systems inspection is completed prior to flight
		1.5	Launch, landing and emergency hover zones are established
		1.6	RPAS automation is utilised to manage control station workload
		1.7	Checklist procedures are implemented during normal RPAS operations
2	Manage multi-rotor 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.

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