AVIY0055 Take off aeroplane

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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 take off in an aeroplane in compliance with relevant regulatory requirements of the Civil Aviation Safety Authority (CASA) and national operating standards.

It includes carrying out pre-take-off procedures, conducting an aeroplane take-off, and performing a rejected take-off procedure.

This unit addresses aviation technical skill requirements (physical, mental and task-management abilities) related to aircraft operational duties of flight crew 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 environment.

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

Pre-requisite Unit

Not applicable.

Competency Field

Y – Aircraft Operation and Traffic Management

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	**Carry out pre-take-off procedures**	**1.1**	Critical take-off airspeeds, aircraft configuration, and emergency and abnormal procedures for normal and cross-wind take-offs are correctly identified
		1.2	Pre-take-off briefing is completed
		1.3	Approved pre-take-off and line-up checklists are completed in accordance with flight manual/pilot's operating handbook (POH) or company operations manual
		1.4	Correction for existing wind component to the take-off performance is verified and correctly applied
		1.5	Runway approach path is visually cleared of conflicting traffic and other hazards prior to lining up for take-off
		1.6	Aeroplane is aligned with runway centre line in take-off direction
		1.7	Air traffic control (ATC) clearances are obtained as required
2	**Conduct aeroplane take-off**	**2.1**	Take-off power is applied, aeroplane is maintained aligned with centre of runway with wings maintained level and rotated at manufacturer recommended speed to achieve planned climb performance
		2.2	Aeroplane is configured for nominated climb profile, and tracking on centreline of runway is maintained during take off
		2.3	Power controls, settings and instruments during take-off are monitored to ensure all predetermined parameters are achieved and maintained
		2.4	Lookout is maintained using a systematic scan technique at a rate determined by traffic density, visibility and terrain
		2.5	Separation with all circuit traffic is maintained
		2.6	Radiotelephone listening watch is maintained
		2.7	Local and published noise abatement requirements and curfews are observed
		2.8	After-take-off checks are performed in accordance with

approved checklist

3	**Perform rejected take-off**	**3.1**	Requirement to abort/reject take-off is identified
		3.2	Power is reduced smoothly and promptly
		3.3	Braking devices are activated
		3.4	Control is maintained to bring aeroplane to a safe stop
		3.5	Associated procedures and/or checklists are initiated and completed

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

This unit replaces and is equivalent to AVIY4002 Take off aeroplane.

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