

ATD EVALUATION AND SUBJECTIVE TEST CRITERIA GACAR PART – 60

ATD Operator Name						
ATD Qualification Level	☐ Basic Aviation Training Device (BATD)		☐ Adva	vanced Aviation Training Device (AATD)		
ATD Qualification Type	☐ Initial Qualification	☐ Qualification ren	☐ Qualification renewal		☐ Re-location	
ATD Manufacturer Name						
ATD Serial No						
ATD Qualification Number						
ATD Qualification Expiry Date			•			

APPENDIX E. EVALUATION AND SUBJECTIVE TEST CRITERIA

1. General Requirements and Evaluation.

- 1.1 Devices eligible as an Aviation Training Device (ATD) must conform to an acceptable aircraft cockpit configuration and instrument panel design. (See Checklist B, Basic Aviation Training Device (BATD) Requirements, and Checklist C, Advanced Aviation Training Device (AATD) Requirements). The simulated systems and subsystems should be able to perform operational functions and performance maneuvers that closely mimic the represented aircraft. Specific attention should be given to ergonomic and human factors.
- 1.2 ATDs must be designed to readily facilitate training, practice, and improving piloting skills. This should include both the procedural and operational performance tasks specified in the Airman Certification Standards (ACS). The criteria listed in Checklists B and C and this checklist will be used to determine whether the design and performance of the training device qualifies GACA approval as an ATD. GACA will use the following checklist during the evaluation of an ATD and must be included in the Qualification and Approval Guide (QAG):

E-1. PROCEDURES AND TASKS TEST CHECKLIST

			Cor	Compliance		
	Maneuvers and Tasks	GACAR Reference	YES	NO	NA	
a)	Pre-takeoff	V4 CHP 30) (AC) 61-136B				
1.	Engine start	V4 CHP 30) (AC) 61-136B				
2.	Taxi and brake operation	(V4 CHP 30) (AC) 61-136B				
b)	Takeoff	(V4 CHP 30) (AC) 61-136B				
1.	AIRPLANE Takeoff	(V4 CHP 30) (AC) 61-136B				
i.	Run-up and power plant checks	(V4 CHP 30) (AC) 61-136B				
ii.	Acceleration characteristics	(V4 CHP 30) (AC) 61-136B				
iii.	Nose wheel and rudder steering	(V4 CHP 30) (AC) 61-136B				
iv.	Effect of crosswind	(V4 CHP 30) (AC) 61-136B				
V	Instrument	(V4 CHP 30) (AC) 61-136B				
vi	Landing gear, wing flap operation	(V4 CHP 30) (AC) 61-136B				
2.	HELICOPTER Takeoff	(V4 CHP 30) (AC) 61-136B				
i.	Power plant checks	(V4 CHP 30) (AC) 61-136B				
ii.	From hover	(V4 CHP 30) (AC) 61-136B				
iii.	From ground	(V4 CHP 30) (AC) 61-136B				
iv.	Vertical	(V4 CHP 30) (AC) 61-136B				
V	Running	(V4 CHP 30) (AC) 61-136B				
c)	In-Flight Operation	(V4 CHP 30) (AC) 61-136B				
1.	AIRPLANE In-Flight Operation	(V4 CHP 30) (AC) 61-136B				
i.	Climb	(V4 CHP 30) (AC) 61-136B				

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	5,10,111,111			
(a)	Normal and max. performance	(V4 CHP 30 (AC) 61-136B		
(b)	One-engine-inoperative procedures (multiengine)	(V4 CHP 30) (AC) 61-136B		
ii.	Cruise	(V4 CHP 30) (AC) 61-136B		
(a)	Performance characteristics (speed vs. power)	(V4 CHP 30) (AC) 61-136B		
(b)	Normal and steep turns	(V4 CHP 30) (AC) 61-136B		
(c)	Approach to stalls (i.e., stall warning), stalls, and recovery. Execute from takeoff, cruise, and approach and landing configurations.	(V4 CHP 30)) (AC) 61-136B		
(d)	In-flight engine shutdown (multiengine)	(V4 CHP 30) (AC) 61-136B		
(e)	Fuel selector function	(V4 CHP 30) (AC) 61-136B		
(f)	In-flight engine start	(V4 CHP 30) (AC) 61-136B		
iii.	Approach	(V4 CHP 30) (AC) 61-136B		
(a)	Normal (with and without flaps) (check gear warning, if applicable)	(V4 CHP 30) (AC) 61-136B		
(b)	Best glide no power	(V4 CHP 30) (AC) 61-136B		
iv.	Landings	(V4 CHP 30) (AC) 61-136B		
2)	HELICOPTER In-Flight Operation	V4 CHP 30) (AC) 61-136B		
i.	Hovering and air taxi	V4 CHP 30) (AC) 61-136B		
(a)	Forward	V4 CHP 30) (AC) 61-136B		
(b)	Rearward	V4 CHP 30) (AC) 61-136B		
(c)	Sideward	V4 CHP 30) (AC) 61-136B		
(d)	Turns	V4 CHP 30) (AC) 61-136B		
ii.	Climb	V4 CHP 30) (AC) 61-136B		
iii.	Cruise	V4 CHP 30 (AC) 61-136B		
(a)	Performance characteristics (speed vs. power)	V4 CHP 30) (AC) 61-136B		
(b)	Turns	V4 CHP 30) (AC) 61-136B		
(i)	Recovery	V4 CHP 30) (AC) 61-136B		
(ii)	Skidding	V4 CHP 30) (AC) 61-136B		
(iii)	Slipping	V4 CHP 30) (AC) 61-136B		
(iv)	Steep turns	V4 CHP 30) (AC) 61-136B		
(c)	In-flight engine shutdown and start (multiengine)	V4 CHP 30) (AC) 61-136B		
(d)	Descents	V4 CHP 30) (AC) 61-136B		
(e)	Straight in and 180° autorotation	V4 CHP 30) (AC) 61-136B		
(f)	Landings	V4 CHP 30) (AC) 61-136B		
d)	Instrument Approaches	V4 CHP 30) (AC) 61-136B		
1)	Non- precision	V4 CHP 30) (AC) 61-136B		
i)	GPS and LPV	V4 CHP 30) (AC) 61-136B		
——————————————————————————————————————	GPS-WAAS (optional)	V4 CHP 30) (AC) 61-136B		
iii)	All engines operating	V4 CHP 30) (AC) 61-136B		
iv)	One or more engines inoperative	V4 CHP 30) (AC) 61-136B		
v)	Approach procedures (VOR, VOR/DME, LOC procedures on an ILS, LDA, RNAV (RDP) or RNAV (GPS) to LNAV, LNAV/VNAV or LPV)	V4 CHP 30) (AC) 61-136B		
2)	Precision	V4 CHP 30) (AC) 61-136B		
i)	ILS	V4 CHP 30) (AC) 61-136B		

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ii)	GLS (optional)	V4 CHP 30) (AC) 61-136B		
iii)	Effects of crosswind	V4 CHP 30) (AC) 61-136B		
iv)	With engine inoperative (multiengine)	V4 CHP 30) (AC) 61-136B		
v)	Missed approach	V4 CHP 30) (AC) 61-136B		
(a)	Normal	V4 CHP 30) (AC) 61-136B		
(b)	With engine(s) inoperative (multiengine)	V4 CHP 30) (AC) 61-136B		
e)	Surface Operations	V4 CHP 30 (AC) 61-136B		
1)	AIRPLANE Surface Operations (Post Landing)	V4 CHP 30 (AC) 61-136B		
i)	Approach and landing roll	V4 CHP 30 (AC) 61-136B		
ii)	Braking operation	V4 CHP 30 (AC) 61-136B		
iii)	Reverse thrust operation, if applicable	V4 CHP 30 (AC) 61-136B		
2)	HELICOPTER Surface Operations	V4 CHP 30 (AC) 61-136B		
i)	Landings	V4 CHP 30 (AC) 61-136B		
ii)	Landing area operations	V4 CHP 30 (AC) 61-136B		
f)	HELICOPTER Emergency Operations	V4 CHP 30 (AC) 61-136B		
1)	Power failure at hover	V4 CHP 30 (AC) 61-136B		
2)	Power failure at altitude	V4 CHP 30 (AC) 61-136B		
3)	System and equipment malfunctions	V4 CHP 30 (AC) 61-136B		
4)	Settling with power (optional)	V4 CHP 30 (AC) 61-136B		
5)	Low rotor RPM recovery (optional)	V4 CHP 30 (AC) 61-136B		
6)	Antitorque system failure	V4 CHP 30 (AC) 61-136B		
7)	Dynamic rollover (optional)	V4 CHP 30 (AC) 61-136B		
g)	Any Flight Phase	V4 CHP 30 (AC) 61-136B		
1)	Aircraft and Power-plant Systems	V4 CHP 30 (AC) 61-136B		
i)	Electrical, mechanical, or hydraulic	V4 CHP 30 (AC) 61-136B		
ii)	Flaps (airplane)	V4 CHP 30 (AC) 61-136B		
iii)	Fuel selector and oil temp/pressure	V4 CHP 30 (AC) 61-136B		
iv)	Landing gear (if applicable)	V4 CHP 30 (AC) 61-136B		
2)	Flight Management and Guidance Systems	V4 CHP 30 (AC) 61-136B		
i)	Autopilot (if standard equipment)	V4 CHP 30 (AC) 61-136B		
ii)	Flight director (AATD only)/system displays (if installed)	V4 CHP 30 (AC) 61-136B		
iii)	Navigation systems	V4 CHP 30 (AC) 61-136B		
iv)	Stall warning systems avoidance (airplane)	V4 CHP 30 (AC) 61-136B		
v)	Multi-function displays (if applicable)	V4 CHP 30 (AC) 61-136B		
3)	Airborne Procedures	V4 CHP 30 (AC) 61-136B		
i)	Holding	V4 CHP 30 (AC) 61-136B		
ii)	Uncoordinated turns – slipping and skidding demo	V4 CHP 30 (AC) 61-136B		
iii)	Configuration and power changes and resulting pitch changes	V4 CHP 30 (AC) 61-136B		
iv)	Compass turns and appropriate errors (if installed)	V4 CHP 30 (AC) 61-136B		
4)	Engine Shutdown and Parking	V4 CHP 30 (AC) 61-136B		
i)	Systems operation	V4 CHP 30 (AC) 61-136B		
ii)	Parking brake operation (if installed) (airplane)	V4 CHP 30 (AC) 61-136B		
h)	Can simulate engine failure, including failures due to simulated	V4 CHP 30 (AC) 61-136B		

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	loss of oil pressure or fuel starvation.				
i)	Can simulate the following equipment or system failures:	V4 CHP 30 (AC) 61-136B			
1)	Alternator or generator failure.	V4 CHP 30 (AC) 61-136B			
2)	Vacuum pump/pressure failure and the associated flight instrument failures.	V4 CHP 30 (AC) 61-136B			
3)	Gyroscopic flight instrument failures.	V4 CHP 30 (AC) 61-136B			
4)	Pitot/static system malfunction and the associated flight instrument failures.	V4 CHP 30 (AC) 61-136B			
5)	The electronic flight deck display malfunctions.	V4 CHP 30 (AC) 61-136B			
6)	Landing gear (if retractable) or flap malfunctions.	V4 CHP 30 (AC) 61-136B			
j)	Independent Instructor Station Requirements (AATD Only)	V4 CHP 30 (AC) 61-136B			
1)	Displays published airways and holding patterns.	V4 CHP 30 (AC) 61-136B			
2)	Displays aircraft position and track.	V4 CHP 30 (AC) 61-136B			
3)	Displays aircraft altitude and speed.	V4 CHP 30 (AC) 61-136B			
4)	Displays NAVAIDs and airports.	V4 CHP 30 (AC) 61-136B			
5)	Can record and replay aircraft ground track history for entire training session.	V4 CHP 30 (AC) 61-136B			
6)	Can invoke instrument or equipment failures.	V4 CHP 30 (AC) 61-136B			
Rema	rke				
	Inspection Result				
	Inspection Result ☐ Satisfactory	□ Unsatisfactory			
No.	☐ Satisfactory	· .	Date (dd/mm	n/yy)
No.		□ Unsatisfactory Signature	Date (dd/mm	ı/yy)
No.	☐ Satisfactory	· .	Date (dd/mm	n/yy)

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