SkyHoppers **Aerial Adventures**

800-515-4225 **Commercial Pilot Syllabus**

Aeronautical Experience Requirements (All as per 14CFR61.129a)

one 250nm leg) and having 3 landings (2 interim & 1 destination)

Ten Solo night TOL's at airport at Towered Airport (as per 61.129a4ii)

5 hours Solo night VFR (as per 61.129a4ii)

Commercial Pilot Candidate:

Written Exam Endorsement

Practical Exam Endorsement

& Test Dates, and Score:

& Test Dates, and Result:

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(as per 61.129a4i)

SkyHoppers Aerial Adventures		(All as per 14CFR 61.125b 1-15)		
		Advanced Aircraft Systems		
		High Performance Powerplants (as per 61.125b12 & 13) 11A (Discuss elements of fuel injection, turbocharging, and constant speed propeller systems & operations; engine monitoring; abnormal combustion)		
800-515-4225		Environmental & Ice control systems (as per 61.125b12 &	13) 11B	
ommercial Pilot Syllabus		Complex Aircraft (as per 61.125b12 & 13) 11C (Discuss elements of hydraulic systems, position indicators, warning horns, safety switches, airspeed limitations, operation, malfunction, & manual extension of landing gear systems)		
ercial Pilot Candidate:	*	Advanced Aeronautical Concepts		
		Advanced Aerodynamics (as per 61.125b3)	12A	
Exam Endorsement Dates,		Advanced Performance Limitations (as per 61.125b7 & 8) (Discuss the effects of exceeding aircraft limitations)	12B	
ore:		Advanced Weight & Balance Limitations (as per 61.125)	b6) 12C	
al Exam Endorsement Dates,		Review of Fundamental Navigation (as per 61.125b9) (Review of navigation using magnetic compass, pilotage & dead reck	2-12 to 2-15 oning)	
sult:		Advanced Radio Navigation (as per 61.125b10)	2C	
	*	Commercial Flight Considerations		
ronautical Experience Requirements (All as per 14CFR61.129a)		Regulations Applicable to Commercial Pilots (as per 6 (Review of privileges and limitations in Jeppsen Chapter 1A, 14CFR6 Advisory Circular 120-12A)	1.125b1) 1.133, &	
250 hours total flight time, including:		Accident & Incident Reporting (as per 61.125b2)	NTSB 830	
100 hours in powered aircraft (as per 61.129a1)		Airspace Procedures (as per 61.125b15)	3 B	
100 hours P-I-C time, including:		Advanced Meteorological Interpretation (as per 61.125b4) 9B to 9E (Discuss elements of critical weather, windshear recognition & avoidance, and weather reports & forecasts)		
50 hours in airplanes (as per 61.129a2i)				
50 hours cross country with 10 hours in airplanes (as per 61.129a2ii)		Aeronautical Decision Making (as per 61.125b5 & 11)	13B	
20 hours Dual training in FAR 61.127b1 Operations, including:		behavioural traps, risk manage elements, & use of the decision making process)		
10 hours Dual Instrument with 5 hours in airplanes (as per 61.129a3i)	*	Commercial Operations		
10 hours Dual in Complex Airplane (as per 61.129a3ii)		Commercial Flight Maneuvers (as per 61.127b1iv, v, & vi)	14A to 14E	
2 hours Dual Day VFR X-C 100nm Outbound (as per 61.129a3iii)		Emergency Procedures (as per 61.125b13 & 61.127b1ix)	13A	
2 hours Dual Night VFR X-C 100nm Outbound (as per 61.129a3iv)		Night and High-Altitude Operations (as per 61.125b14)	11B	
3 hours Dual within 60 days preceding practical test (as per 61.129a3v)		FAA Commercial Pilot Written Exam		
10 hours <u>SOLO</u> flight in FAR 61.127b1 Operations, including:				
Single <u>Solo</u> cross-country of at least 300nm total distance (including				

Commercial Ground Instruction

Jeppesen Chapter	Stage 1 - Commercial Considerations		Stage 2 - Commercial Maneuvers		
	*	Preflight Preparation (as per 61.127b1i)	*	Slow Flight & Stalls (all as per 61.127b1viii)	
11A propeller		Certificates and Documents (Exhibit knowledge of commercial certificate privileges & limitations, medical requirements & special flight permits)	$ riangle O \Box$	Slow Flight Configuration (PTS for airspeed ± 5 knots & altitude ± 50 feet)	
			$\triangle O \Box$	Power-Off Stalls (Private standards revisited)	
3) 11B 11C orns, safety ion of landing		Airworthiness Requirements (Exhibit knowledge of aircraft inspections, inoperative equipment, minimum equipment, and special flight permits)	$\triangle O \Box$	Power-On Stalls (Private standards revisited)	
			$\triangle O \Box$	Turning Stalls (Private standards revisited)	
	$\triangle O \Box$	Weather Information (Exhibit knowledge of weather report analysis in making go/no-go decision)	$\triangle O \Box$	Spin Awareness (Recognize incipient spin attitude, and execute recovery)	
			*	Takeoff & Landing (as per 61.127b1iv)	
12A		Cross-country Flight Planning	$\triangle O \Box$	Normal Takeoff & Climb (PTS = Vy ± 5 knots)	
		(Private knowledge revisited; Exhibit knowledge of power and mixture management for range and performance)		Normal Approach-to-Land (PTS = 1.3Vso ± 5 knots & touchdown within 200 feet)	
12B	$\triangle O \Box$	National Airspace System (Private knowledge revisited)	$\triangle O \Box$	Crosswind Takeoff & Climb (PTS = Vy ± 5 knots)	
j <u>12C</u> △O		Aircraft performance & limitations	$\triangle O \Box$	Crosswind Approach-to-Land (PTS = 1.3Vso ± 5 knots & touchdown within 200')	
			$\triangle O \Box$	Short Field Takeoff & Climb (PTS = Vx + 5/-0 knots, then accelerate to Vy ± 5 knots)	
2-12 to 2-15 hing) △○□		Operation of systems (Exhibit knowledge of high performance powerplants & constant-speed propeller, retractable landing gear & hydraulics, oxygen systems, and de-icing equipment)	$\triangle O \Box$	Short Field Approach-to-Land (PTS = 1.3Vso ± 5 knots & touchdown within 100)	
			$\triangle O \Box$	Soft Field Takeoff & Climb (PTS = Vy ± 5 knots)	
2C △O		Aeromedical Factors (Exhibit knowledge of commercial flight fitness limitations & passenger considerations)	$\triangle O \Box$	Soft Field Approach-to-Land (PTS = 1.3Vso ± 5 knots)	
			$\triangle O \Box$	180 Degree Power-off Accuracy Approach-to-Land	
125b1)	*	Preflight & Postflight Procedures (as per 61.127b1ii & xi)	$\triangle O \Box$	Go-Around Procedure (PTS = Vy ± 5 knots)	
.133, &	$\triangle O \Box$	Emphasis & practice in flowcheck - checklist methods	*	Emergency Operations (as per 61.127b1ix)	
NTSB 830		Preflight Inspection (Exhibit knowledge of electrical equipment for day & night operations, and aircraft maintenance requirements)	$\triangle O \Box$	Checklist Procedures for Systems & Equipment Malfunctions	
3 B				Simulated Engine Failure & Descent to Forced Landing	
9B to 9E		Cockpit Management (Demonstrate pre/post- flight & emergency passenger briefing, professional organization of pilot materials. and crew resource management skills)		(Demonstrate response to different types of emergencies & configures complex airplane accordingly for appropriate descent maneuver while maintaining positive load factor)	
ce, and weather				Emergency Equipment & Survival Gear	
13B		Engine Starting	*	Performance Maneuvers (as per 61.127b1v & vi)	
sk factors, (process)		(Exhibit knowledge of propwash courtesy, external power source usage, high altitude mixture leaning, and effective engine starting)	$\triangle O \Box$	Steep turns (Commercial PTS = bank to $50^{\circ} \pm 5^{\circ}$)	
14A to 14E		Taxiing	$\triangle O \Box$	Steep spirals	
		△ O 凵 (Demonstrate runway incursion avoidance techniques while performing instrument checks)		Chandelles	
13A	$\triangle O \Box$	Before Takeoff Check (Demonstrate proper aircraft positioning & sequencing)	$\triangle O \Box$	Lazy eights	
11B	$\triangle O \Box$	Postflight Parking, Securing, & Checklist Procedures	$\triangle O \Box$	Eights-on-pylons (as per 61.127b1vi)	
	*	Airport Operations - Private Knowledge Revisited (as per 61.127b1iii)	*	Advanced Navigation (as per 61.127b1vii)	
	$\triangle O \Box$	Airport Markings, Signage, & Lighting		Pilotage and Dead Reckoning	
	$\triangle O \Box$	Traffic Pattern Procedures & Collision Avoidance		(Navigate to <u>planned</u> checkpoint and verifies position within 2nm & arrives within 3 minutes of ETA; maintains appropriate altitude ± 100 feet and headings ± 10°)	
	$\triangle O \Box$	 O□ Airport Radio Communications & ATC Light Signals ★ High Altitude Operations (as per 61.127b1x) 		Navigation systems and ATC Radar services (PTS = altitude ± 100 feet and headings ± 10°)	
	*				
	\triangle	Supplemental Oxygen	$\triangle O \Box$	Diversions (PTS = altitude ± 100 feet and headings ± 10°)	
	\triangle	Pressurization Systems	$\triangle O \Box$	Lost procedures (Private standards revisited)	