	SkyHoppers	Instrun	nent Rating Candidate:		Instrument Rating Aeronautical
		Written	Exam Endorsement		Current Private or Commercial Certificate
	Aerial Adventures	& lest	Dates,		50 hours Cross Country PIC Time (10 hours in airplanes)
		and Sc	ore:		40 hours Simulated or Actual Instrument Time to include:
	800-515-4225	Practic	al Exam Endorsement	0	15 hours Dual instrument flight training in airplanes (non-simulator)
In	strument Rating Syllabus	& Test and Re	Dates, sult:	0	3 hours Dual instrument flight training within 60 days preceding practical test
Instr (All as per	ument Ground InstructionJeppesen61.65b 1-10)Chapter	Sta	ge 1 - Transition to Instrument Flight		Stage 2 - Instrument Navigation
*	Principals of Instrument Flight	*	Preflight Preparation (as per 61.65c1)	*	Navigation Systems (as per 61.65c5)
	Attitude Flight Instruments 2A		Preflight Weather Briefing	$\triangle O \Box$	VOR Radial & DME ARC Interception & Tracking
	Attitude Instrument Flying Technique (as per 61.65b7 - safe & efficient operation of a/c under IFR & instrument conditions) 2B Instrument Navigation (as per 61.65b4) 2C		(Obtain and analyze printed & graphic Wx products suitable for the proposed flight, and determine need for alternate airport with required minimums) Cross Country IFR Flight Planning (Prepare navigation log as assigned i.a.w. IFR & conventions, using real-time Wx to determine ETE, EFC & performance limitations and correctly select applicable instrument charts & accounting for		(Demonstrate proper tuning of VOR and/or GPS, recognize failure, determine OBS orientation for position, fly intercept heading and track specified radial TO or FM station, all while M airspeed ±10kts, altitude ±100ft, & heading ±5° using wind correction to maintain within 3/4 scale of CDI - intercept & maintain DME ARC within 1nm)
*	IFR Environment, Services, and Procedures		NOTAMS - demonstrate knowledge of GPS & RAIM as applicable)		NDB Interception & Tracking
	IFR Environment 3A (as per 61.85b2 - information pertaining to IFR flight operations specified in AIM, including airports and airspace)	★ ∆0□	Preflight Procedures (as per 61.65c2) Aircraft Systems Related to IFR Operations		(Demonstrate proper tuning & monitoring of ADF, recognize failure, determine NDB direction & a/ position, fly intercept heading and track specified bearing TO or FM station, all while M airspeed ±10kts, altitude ±100ft, & heading ±5° using wind correction to maintain within 10° of bearing)
	Air Traffic Control system (as per 61.85b3) 3B		applicable)	*	ATC Clearances & Procedures (as per 61.65c3)
	Instrument Flight Rules (as per 61.85b1) FAR 91.167-187		Aircraft Flight Instruments & Navigation Equipment	$\triangle O \Box$	ATC Clearances
	ATC Clearances (as per 61.85b3) 3C		operation, and mag compass errors & limitations)		clearance copy & readback, interpret clearance and determine compliability, set navcom radios
*	Aviation Weather		Instrument Cockpit Check		accordingly, and understand pilot/controller responsibilities)
	Advanced Meteorology 9A		demonstrate preflight check for ainworthiness)	$\triangle O \Box$	Compliance with Dep., Enroute, and Arrival Proc. & Clearances
	Weather Hazards 9B (as per 61.65b8 - recognition of critical weather situations and wind shear avoidance)	★ △○□	Flight by Reference to Instruments (as per 61.65c4) Straight & Level Flight		results knowledge of DP, Enrotie, & STAR Chart symbology and interpretation - Demonstrate pri- navcom usage & ID, make timely route interception & determine compliance with ATC instruction. proper radio contact & phraseology, radio failure procedures, and pilot/controller responsibilities,
*	Aviation Weather Products (all as per 61.65b6)		(Maintain Practical Test Standards for AIF in specified flap configurations, with full & partial panel)		while M airspeed \pm 10kts, neading \pm 10°, & altitude \pm 100tt, using wind correction to maintain within 3/4 scale of CDI)
	Sources of Weather Information 9E		Change of Airspeed		Holding Procedures
	Printed Weather Reports & Forecasts 9C	-	(Maintain Practical Test Standards for AIF in straight or turning LEVEL flight, under full- or partial-		(Demonstrate {& explain} proper entry procedures, holding airspeed, holding fix recognition, ATC
	Graphic Weather Products 9D		Constant Airspeed Climbs & Descents		reporting, leg timing & associated wind correction procedures, all while M airspeed ±10kts, headir ±10°, & altitude ±100ft, using wind correction to maintain within 3/4 scale of CDI)
*	Instrument Charts & Procedures (all as per 61.65b5)		(Maintain Practical Test Standards for AIF in straight or turning flight, under full- or partial-panel, using practice with & power adjustments to establish specified airspeed)	*	Non-Precision Approach Procedures (as per 61.65c6)
	Departure Charts & Procedures 44, 48		Constant Rate Climbs & Descents		Non-Precision Approach
	Enroute Charts & Procedures 5A, 5B	-	(Maintain Practical Test Standards for AIF including VSI within 100fpm of specified rate, in straight or turning flight, under full, or nartial panel, using precise pitch, bank & power adjustments to establish		> Exhibit knowledge of Non-Precision IAP's & symbology
	Holding Procedures 5C	-	specified rate)		> Execute 2 approaches based on separate VOR/GPS/LOC/NDB navaids as selected by examin
	Arrival Charts & Procedures 6A. 6B		Timed Turns to Magnetic Compass Headings		either approach to be conducted partial panel {see below}, procedure turn, via own navigation, and/or without autopilot)
	Approach Charts 7A	-	(Maintain Practical Test Standards for AIF including bank within 5° of specified rate-of-turn, and roll out within 10° of specified mag compass beging accounting for errors & limitations in limed		> Proper demonstration of: execution of IAP including navcom usage & navaid ID/status - ATC
	Approach Procedures 78	-	{calibrated} standard-rate turns using proper calibration of clock timing and turn coordinator)		contact & phraseology - ATC compliance - equipment/aircraft limitation reporting - adverse Wx configuration - and checklist usage - all while M airspeed ±10kts, heading ±10°, & altitude ±100ft,
	IFR Flight Planning 10C		Steep Turns		using wind correction to maintain within 3/4 scale of CDI prior to FAF)
	Non-Precision Approaches 8A	-	(Maintain Practical Test Standards for AIF in 45° bank left & right 180° or 360° turns using FULL nanel)		> Demonstrate proper descent within 3/4 scale of CDI to MDA {+100/-0' & accounting for NOTAM
	Precision Approaches 8B		Unusual Attitude Recovery		changes}, before MAP, using appropriate rate, timing, maneuvers, and airspeed ±10kts as per approach category
	GPS & RNAV Approaches 8C	-	(Demonstrate proper interpretation of BOTH nose-high & nose-low unusual attitude indications, and apply correct recovery sequence WITHOUT intervention by examiner)		> Execute either a straight-in or circling approach-to-land using normal maneuvers, or a missed
*	IFR Flight Considerations		AIF Practical Test Standards		approacn as warranted or specified by examiner
	IFR Emergencies (as per 61.65b7) 10A		> Maintain Airspeed ±10kts, Heading ±10°, Altitude ±100' during level flight & leveloffs, and Bank ±5°		Missed Approach
	IFR Decision Making 10B, 13-17 to 21 (as per 61.65b 9&10 - ADM & judgement, and CRM including crew communication & coordination)	-	auring turns, for all maneuvers as applicable. > Demonstrate all maneuvers using proper A-I-F techniques, while under the hood, involving instrument cross check, interpretation, and pitch-power-bank-trim control inputs.		(Demonstrate proper 'go-around' procedure i.a.w. POH checklist for power, pitch, & flap configuration, followed by ATC report and compliance with missed approach procedure, or cleara to alternate airport as specified - all while M airspeed ±10kts, altitude ±100ft, & heading ±10° dur, missed approach)

Experience Requirements (as per 61.65d 1 & 2)

	Single Dual X-C conducted in an airplane under IFR to include:
 0	250nm minimum distance along ATC directed routing or airways (no minimum leg distance or number of interim landings specified)
 0	Execution of 3 distinct instrument approaches between any interim and destination airports

& Instrument Approach Procedures

	*	Precision Approach Procedures (as per 61.65c6)
	$\triangle O \Box$	Precision Approach
r		> Exhibit knowledge of Precision IAP's & symbology
		> Execute single approach providing vertical, horizontal, and range guidance
		> Proper demonstration of: execution of IAP including navcom usage & navaid ID/status - ATC contact & phraseology - ATC compliance - equipment/aircraft limitation reporting - adverse Wx
/c		configuration - and checklist usage - all while M airspeed ± 10 kts, heading $\pm 10^{\circ}$, & altitude ± 100 ft, using wind correction to maintain within 3/4 scale of CDI prior to glideslope interception)
		> Demonstrate proper interception of glideslope & localizer, and maintain descent within 3/4 scale of each to DA {accounting for NOTAM changes} using predetermined rate, normal maneuvers, and airspeed ±10kts as per approach category
		> Execute either an immediate visual descent to straight-in landing from DA, using normal maneuvers within 3/4 scale deflection until landing transition, or missed approach from DA as warranted or specified by examiner

	*	Approach-to-Land
roper is, all n		Circling Approach (Demonstrate proper circling procedure requiring 90° change in direction, i.a.w. safe circling radii & visibility requirements based on approach category, procedural notes, traffic limitations, and/or ATC instruction - all while M MDA +100/-0 in published visibility until positioned for normal descent & landing considering a/c maneuverability & adverse weather)
C ing		Landing From a Straight-In or Circling Approach (Exhibit adequate decision-making ability considering situational {traffic}, operational {ATC advisories/NOTAMS/runway condition}, & meteorological {wind shear/wake turbulence} factors while transitioning from MDA/DA into a visual flight condition for either straight-in or circling approach, completing checklist items, and maintaining positive a/c control throughout landing maneuver)

er -	*	Emergency Operations
	$\triangle O \Box$	Loss of Communications
		(exhibit knowledge of procedures for communication loss, including recognition of loss, radio troubleshooting, route and altitude selection following loss, and proper timing of departure from
		holding and initial approach fixes)
	$\triangle O \Box$	Approach with Loss of Primary Flight Instrument Indicators
		(Demonstrate recognition of inoperative gyroscopic attitude instruments and report to ATC, then execute a partial-panel approach i.a.w the Practical Test Standards for Non-Precision approach or advise if unable to comply with clearance)

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Postflight Procedures

Postflight Instruments & Equipment Check

(Demonstrate ability to recognize and squawk inoperative equipment or instruments, and knowledge of which inoperative components might ground the aircraft)