INSTRUMENT RATING PLAN OF ACTION

A. ADMINISTRATIVE

Appointment – Step 1

4.

Ask for any questions from the applicant.

Applicant				
Name:		Cert#:		
IACRA (Option: ☐ No ☐ Yes	FTN:		
Phone:		Phone:		
□ 61 □	☐ 141 School (4 letters):	School Name:		
Aircraft	1 m/m:	Aircraft 2 m/m:		
Aircraft	1 N#:	Aircraft 2 N#:		
Retest:	□ No □ Yes – AOAs:			
Medical	Restrictions: ☐ None ☐ Glasses ☐ Oth	ner:		
Medical	Date of Issue:			
Recomr	mending Instructor			
Name:		Cert#:		
Phone:		Phone:		
IACRA I	Ready: No Yes	IACRA Application #:		
Practica				
Location	า:			
Date/Tir	ne:			
	<u> </u>			
	Greet Applicant			
	Relaxed atmosphere			
	a. Search for a common background.			
	b. Location of rest rooms, coffee/refreshr	ments etc.		
	Overview of test			
	a. Approximate time required.			
	b. Advise of note taking/use of POA.			
	c. Rules regarding PIC for the flight. Pos	itive exchange of controls		
	d.The 3 possible outcomes of the test			
	Temporary Airman Certificate			
	 Disapproval Notice – valid for 			
	Letter of Discontinuance – va	llid for 60 days		
	0 11 11 11			
	Grading criteria			
	a. Practical Test Standards maneuvers b			
	b. Oral testing may take place during flig	nt.		

Eligibility

- 1. Application 8710.1 signed by applicant & recommending CFI. Prefer IACRA
- 2. Pilot Certificate private certificate
- 3. Identification Picture ID Address matches 8710
- 4. Logbook properly endorsed for Practical Test
- 5. Medical certificate valid and at least third class.
- 6. English read, write, & converse fluently in English, 61.103
- 7. Written Test Results within 24 months.
- 8. Aeronautical Experience, verify hours and log book entries
- 9. Required equipment:
 - a. Aircraft Documents (AROW)
 - b. Aircraft Maintenance Records
 - 1. Logbook record of airworthiness inspections
 - 2. AD compliance
 - c. POH or FAA approved AFM.
 - d. Personal Equipment
 - 1. View limiting device
 - 2. Current aeronautical charts
 - 3. Computer & plotter
 - 4. Flight plan form
 - 5. Flight logs
 - 6. Current AIM, A/FD, AIM, FAR, & PTS

B. GROUND- Testing begin now

[]	Discuss the Aircraft requirements: inspections and equipment
	Annual 100 hour
	Pitot/static, altimeter, transponder; How often VOR checks; how often, allowable limits
	GPS; current data base, Raim (what is raim, how does it affect using GPS
[]	Required documents
IJ	AROW
	Pilot: ID, license, medical, flight review
	Currency: Both TO & landing plus IFR
	Explain IFR currency, how you maintain, regain currency (time limits, how many approaches)
	Define an appropriately rated safety pilot
[]	Required equipment: Day/night VFR plus GRABCARD
	When can you log actual IFR time? Simulated?
[] [] []	When must you file an IFR flight plan
n	how and when can you cancel
	Discuss your flight plan
LJ	What factors did you consider when choosing an altitude
	How much fuel will we need/ required/have
	When would you need an alternate (123) how do you calculate fuel needed if an alternate is
	required
[]	What are the WX minimums for the alternate? With ILS OTS? What if the only available
	approach is a GPS?
	Look at low enroute chart
	How are the airspaces depicted?
	Can we file direct through MOAs, restricted areas, alert
	areas (if yes, what do you need to consider if direct is not available?
	Describe airspace A,B,C,D,E, and G. requirements
[]	What is the significance of the different colors for airports?
	Are there any special considerations if the WX if marginal VFR?
	Explain the following: MEA, MOCA, OROCA, MCA, MRA
	How does GPS or lack of GPS change the way you use them (MOCA)
	Identify/describe other items on map
	Review runway markings
**	
W	EATHER
	How do prefer to obtain a weather briefing?
	Online: which web sites so you use? Which products and why? Why not others?
	Read various preprinted charts, describe main elements
	TAF, METAR, winds aloft, prog, wx depiction
	Telephone
	What do you ask for? What type briefing? Specific products TAF, METAR, area forecast, notams
-	airmets sigmets, pireps. Explain these products?
	If your entire route is forecast to be IFR, what specific information should you request? (where
	would you go to find VFR WX in an emergency) Would you have fuel to get there? If not,
r 1	what would your options be? What are the four types of structural ising? AC 00 6A
[]	What are the four types of structural icing? AC 00-6A
[]	Clear, rime, mixed, frost What should you do if you encounter icing conditions? AC 00-06A
LJ	Request a change of course and/or altitude

[]	What aircraft characteristics will be observed in the following wind shear situations? Increase in headwind – As a tailwind shears to a headwind an increase in airspeed and altitude occurs along with a nose up pitching tendency. The usual reaction is to reduce both power and pitch. This can be dangerous if the aircraft suddenly encounters a downdraft and tailwind. Now the situation demands the exact opposite of the pilots initial reaction
	Decrease in headwind – As a headwind shears to a calm or tailwind, pitch decreases, airspeed decreases, and a loss of altitude occurs. The required action is more power and a higher pitch attitude to continue a climb or remain on the glide slope
[]	To whom and how would you report a wind shear encounter? AIM 7-1-24 To the controller. Loss or gain of airspeed and altitude, distance from airport.
[]	When temp. and dew point are close together (within 5°), what type of weather is likely? Visible moisture in the form of clouds, dew, or fog
[]	State two basic ways fog can form. AC 00-6A Cooling air to the dew point and adding moisture to the air
[]	Name several types of fog. AC 00-6A Radiation, Advection, Upslope, Precipitation –induced, and Ice fog
	t are airmets, sigmets and convective sigmets? How do they apply to different situations?
[] Wha	t is RVR? Where do you find it? When do you need it? ain the various types of icing. When and how they form, How to avoid, how to eliminate after it forms, dangers
DEP	ARTURE
	v can you obtain and IFR clearance? Controlled/ uncontrolled airports lain Clearance Void Time, Hold for Release when included in an IFR clearance
	at are minimums for an IFR take-off? What are considered minimums for good operating Practice?
	at are DP's? Where do you find them? Must you accept them? (If no, how does that work) en in VMC are you required to maintain vigilance for traffic?
	uss transponder requirements, codes, nordo procedures, incorrect altimeter setting OUTE
	at reports to ATC are required?
	Vacate an altitude alt. change if VFR on Top unable to climb/desc 500ft/min Missed app change in true A/S time and alt. upon reaching holding fix
	Leaving assigned holding fix or point loss of Nav or com impairment
[] Exp	Encountering wx or hazardous conditions not forecast plain maintain; cruise
[] VFR	R on Top clearance Why would you want one? Is it an IFR clearance? Where is it nibited?
	at altitudes are appropriate? What cloud clearance and vis do you need?
	ding: What info is ATC required to provide? What if the holding pattern is not charted? y do you need and EFC time?
[] Expl	lain how you would handle an EFC time NORDO
	RDO procedures
	ute: assigned, vectored, expect filed itude: highest of : MEA, expect or assigned
	redures for electrical failure
[] Wha	at actions if you inadvertently encounter thunderstorms, icing
	lain no gyro turns. When would you use them, what turn rates do you use?
	at are: HSI, RMI, DME, RNAV, 5: discuss losing RAIM
	you use a VFR GPS?

Al	RRIVAL
[]	What is a STAR? Must you accept? If not, Explain
Ö	When can you start a descent when you are "cleared for the approach"?
	What are standard IFR minimums?
	What is MVA?
Ö	What is the procedure for visual approaches? What cloud clearances are required, if any?
Ö	Explain "contact approach"
Ö	Explain the difference between DH and MDA. When can you descend below them?
Ö	Describe the main elements of this approach plate.
	On the approach plate, identify and describe: IAF, FAF, procedure turn, MA procedures, MSA, symbols,
[]	Procedure Turns: When not required?
Ö	Limitations for procedure turns
Ö	Procedure if holding pattern is specified in lieu of PT
	Precision approaches: elements- course guidance, range info, visual
	Describe the different marker beacons: locations, indications
	What are PAR and ASR approaches?
	Describe No- Gyro turns/approaches
	Describe some different non-precision approaches
Ö	Discuss the GPS overlay program
	Discuss Circling approaches
	Discuss missed approach procedures:, identify MAP.
	What speeds do you use on the approach (category, timing, flap speeds)
	Do you have to have a back-up for a GPS approach?
	When can you use GPS in lieu of DME or ADF? Are there any restrictions?
[]	What is WAAS?
	What happens and how do you react when a tailwind shears to calm or a headwind?
	What happens and how do you react when a headwind shears to calm or a tailwind?
S	YSTEMS
	Explain how the following work and problems/indications/solutions
LJ	Airspeed, altimeter, VSI
	Artificial Horizon/ DG
	Turn coordinator
	Compass (limitations/ Explain Northerly turning error) Why is that important
	Alternate air source
	Pitot heat
[]	Oxygen systems if available. Ox requirements.
	V speeds
	REW RESOURCE MANAGEMENT
٠.	
гп	What does Crew Resource Management refer to?
	Identify some of the resources available to a single pilot
ιJ	identify some of the resources available to a single pilot
SIT	TUATIONAL AWARENESS
	What is situational awareness?
	What is situational awareness?
[]	What 4 elements are taken into consideration with situational awareness?
r 7	Pilot - Aircraft Environment Type of operation
	What are some of the elements, inside and outside the aircraft, that must be considered to maintain
SA	
	A/C systems, pilot and pax

	Environmental conditions, spatial orientation of the a/c, relationship to terrain, traffic, wx, and
airs	pace
[]	What are some of the obstacles to maintaining SA?
	Fatigue, stress, work overload. Distractions- minor issue diverting attention and pilot fails to maintain
con	itrol of a/c
[]	What are some "operational pitfalls"?
	Peer pressure, mindset, get-there-it is, descent below minimums, scud running, vfr into ifr, getting
beh	nind a/c, loss of positional/situational awareness, inadequate fuel reserves, flying outside the envelope,
neo	plect of preflight planning/inspections/checklists