

INSTRUCTOR'S GUIDE

INSTRUMENT RATING





Cessna Flight Training System

Cessna Instrument Rating Training Course

INSTRUCTOR'S GUIDE

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Cessna Instrument Rating Instructor's Guide

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INSTRUCTOR'S GUIDE REVISION RECORD

Revision Number	Revision Date	Online Date	Change Description
)/ 1 00	00.45.44	ODICINIAL	ODICINAL
Ver. 1.00	08-15-11	ORIGINAL	ORIGINAL
Ver. 1.01	06-15-16	07-01-16	Pages 3 & 4 Replaced Practical Test Standards with Airman Certificate Standards
Ver. 1.10	2-10-20	2-17-20	Removed redundant pages found in the Cessna Instrument Rating Syllabus Pages 1-13.
Ver. 1.10	2-10-20	3-23-20	Added Instrument Rating Syllabus Quick Guide Pages 1 - 22

R1 Ver. 1.10

INSTRUCTOR'S GUIDE REVISION RECORD

Revision Number	Revision Date	Online Date	Change Description

R2 Ver. 1.10

Overview

The **Cessna Flight Training System** is an integrated online ground and scenario-based flight training course, developed exclusively for Textron Aviation by the experts at King Schools. It has been designed to provide pilots-in-training with the knowledge, skills and confidence to embrace their future in aviation.

Online knowledge study and flight training are recorded in the Course Tracking Application (CTA). All pilot-in-training customers should be registered in the Course Tracking Application (CTA).

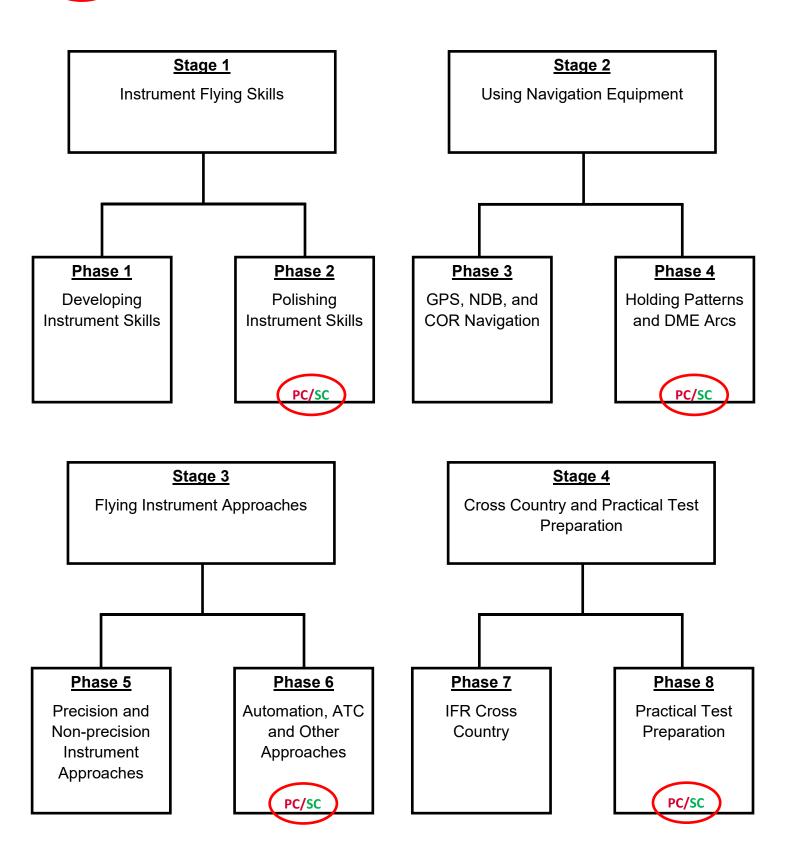
This quick reference guide is intended to provide flight instructors with a brief overview of the Cessna Flight Training Syllabus. The intended use of this guide is to familiarize the CFI with the overall course structure and training objectives. This guide <u>does not</u> replace the official course syllabus. The full course syllabus can be found in the Course Tracking Application (CTA) under the Documentation menu>Certification/Rating folder.

Course Structure

- Stages The course is divided into four stages. Each stage has a required progress check.
 - ⇒ Progress / Stage Checks (PC) (SC) Within each Stage, there is at least one Progress Check serving as a Stage Check that consists of oral quizzing and a flight given by the Chief CFI, Assistant Chief CFI, or a designated CFI. Please see full syllabus for progress check details.
- <u>Phases</u> Each stage is divided into phases, there are eight phases. Each phase has required
 web-based knowledge instruction (required), flight scenarios (highly recommended), phase
 ground training checklists (required), and phase proficiency checklists (required).
 - ⇒ Web-based Knowledge Instruction Builds the customer's knowledge foundation for flight scenarios, completed before the corresponding phase can be considered complete. Customers will complete this on the Cessna Companion App or Cessnaflighttraining.KingSchools.com
 - ⇒ **Flight Scenarios** May be customized by the flight school for its operating environment and adapted as necessary by the instructor. Flight scenarios may be repeated as necessary for the pilot-in-training to achieve the required grade level for each specified tasks.
 - ⇒ **Ground Training Checklist** The pilot-in-training must be able to explain the concept to show their understanding of underlying concepts, principles and procedures. The ground training checklist for each phase can be found in the full course syllabus in the Course Tracking Application (CTA) under the Documentation menu>Certification/Rating folder.
 - ⇒ **Phase Proficiency Checklists** Tasks and completion standards for the phase. The phase proficiency checklist for each phase can be found in the full course syllabus in the Course Tracking Application (CTA) under the Documentation menu>Certification/Rating folder.

Syllabus Structure





Grading

Pilots-in-training must complete each task to the highest level of proficiency in order to graduate. Once a task has been marked to the highest standard, it is considered complete for the Phase regardless of future grading. It is the instructor's discretion whether they want the customer to repeat performing the task.

• Maneuver (Task) Grades

- ⇒ **Describe** At the completion of the ground training session, the pilot-in-training will be able to describe the physical characteristics of the task at a rote level.
- ⇒ **Explain** At the completion of the ground training session, the pilot-in-training will be able to describe the task and display an understanding of the underlying concepts, principles, and procedures.
- ⇒ **Practice** At the completion of the scenario the pilot-in-training will be able to plan and execute the scenario. Coaching, instruction, and/or assistance from the instructor will correct deviations and errors identified by the instructor.
- ⇒ **Perform** At the completion of the scenario, the pilot-in-training will be able to perform the activity without assistance from the instructor. Errors and deviations will be identified and corrected by the customer in an expeditious manner. At no time will the successful completion of the activity be in doubt. ('Perform' will be used to signify that the pilot is satisfactorily demonstrating proficiency in traditional piloting and systems operation skills.)

Example: Once the pilot-in-training can explain the effect of crosswind and speed reduction on rudder effectiveness, they have achieved a level of learning that will allow for meaningful "Practice." The "Perform" level is met when the completion standards for the particular scenario or phase are met

Single-Pilot Resource Management (SRM) Grades

- ⇒ **Explain** At the completion of the ground training session, the pilot-in-training can verbally identify the risks inherent in the flight scenario.
- ⇒ **Practice** The pilot-in-training can identify, describe, and understand the risks inherent in the scenario. The customer may need to be prompted to identify risks and make decisions.
- ⇒ **Manage/Decide** The pilot-in-training can correctly gather the most important data available both within and outside the cockpit, identify possible courses of action, evaluate the risk inherent in each course of action, and make the appropriate decision. Instructor intervention is not required for the safe completion of the flight.

Example: A pilot-in-training who is becoming proficient at aeronautical decision making (ADM) and risk management (RM) would be graded first at the "**Practice**" level. The "**Manage**/ **Decide**" level is met once a pilot makes decisions on their own, for instance, the decision to go-around without being prompted.

Stage 1, Phase 1: Developing Instrument Skills

Objective: In this phase the pilot-in-training will learn preflight preparation for IFR flight, instrument scan techniques, basic instrument flight maneuvers, using the magnetic compass and postflight procedures following an IFR flight.

Web-based Knowledge Objectives

Ex	ploring Instrument Flying						
	How you'll become instrument		Heading and altitude		Before you get into the airplane		
	rated		Leaving straight-and-level flight		IFR preflight		
	Sensory systems		Primary instruments		Checking the instruments		
	Spatial disorientation		Supporting instruments				
Fli	ght Instruments						
	Gyroscopic principles and AHRS		Pressure sensing flight instruments		Using the G1000 PFD		
	How your attitude and heading		and ADC		Using the G1000 MFD		
	gyros work		Pitot or static system blockage		Good habits for IFR flying		
	How your electric turn coordinator works		Altitude types and how read the altimeter		Turning climbs and descents		
Ra	dio Navigation Aids and the Magne	etic	Compass				
	VOR		RNAV and GPS		Controlling your rate and radius of		
	VOR indicator and how to use it		Turning forces and controlling load		turn		
	HSI		factor		Magnetic compass errors		
	DME		Limiting load factor in turbulence		Timed turns		
Siı	ngle-Pilot Resource Management						
	General aviation and instrument		Single-plot resource management		Controlled flight into terrain		
	flying		Risk management		awareness		
	Risk awareness and recognizing hazards		Task management		Automation management		
	nazardo		Situational awareness		Aeronautical decision making		
<u>Fli</u>	ght Scenarios						
		ence	erstand instrument preflight procedure e to instruments only while developing skills.				
	Improving your instrument scan - Continue learning the preparation necessary for an IFR flight and improve instrument flying skills including instrument cross-check and interpretation, and aircraft control. ATD may be used.						
	,	•	rove basic control while flying by refe an unreliable heading indicator. For a		•		
	Loss of heading indicator (Analog) - Improve basic control while flying by reference to instruments only, and learn how to use the compass in the event of an unreliable heading indicator. For airplanes equipped with analog flight instruments.						

Stage 1, Phase 1 Continued On Next Page

<u>Gr</u>	<u>ound training tasks</u>						
	Aircraft systems related to IFR		Instrument cockpit check		Safety practices and procedures		
	operationsAttitude instrument flying - primary		Instrument Rating Airman Certification Standards (ACS)		Single-pilot resource management (SRM)		
	and supporting method vs. control and performance concept		Preflight preparation for an IFR flight		Study material and habits		
<u>Fli</u>	ght Training Tasks						
	Risk management		Instrument cockpit check		Turning climbs and descents		
	Evaluating weather information		Collision avoidance (visually and in		Level-offs		
	Weather briefing and/or acceptable weather sources		response to ATC traffic calls) Pitch and power settings required		Loss of primary flight instrument— heading indicator		
	Takeoff and landing data		for basic instrument maneuvers				
	Weight and balance		Straight-and-level flight		headings		
	Charts		Airspeed changes in level flight		Timed turns to magnetic headings		
	Preflight inspection		Standard-rate level turns		After landing, parking and securing		
	Cockpit management		180-degree standard-rate turns				
	Checklist usage		Constant airspeed climbs and descents				
	Positive exchange of flight controls		Constant rate climbs and descents				
	Correlating airport diagrams with taxiway and runway signs and markings		Constant rate climbs and descents with constant airspeed				
<u>Ph</u>	ase 1 Completion Standards						
	Know and can complete all preflight preparation required for an instrument flight						
	Can determine the airplane is safe for	or IF	R flight				
	Can safely control the airplane by re	fere	nce to instruments only				

□ Can perform basic instrument flight maneuvers

Stage 1, Phase 2: Polishing Instrument Skills

Objective: Here the pilot-in-training will polish their skills controlling the airplane by reference only to the flight instruments and learn to receive, copy and fly an IFR clearance. The pilot-in-training will also learn to control the airplane simulating failure of the primary flight instruments and recover from an unusual flight attitude.

Web-based Knowledge Objectives

IFI	R Enroute Charts, Clearances, and	Sta	ying Organized	
	Airspace		Intersections and reporting points	How to copy a clearance
	Airports and navaids		Altitudes	Cockpit organization
	Airways		More altitudes	
Un	derstanding the Weather			
	What makes weather		Stable and unstable air	Thunderstorms
	Atmosphere		Air masses and fronts	Wind shear
	Wind circulation		Fog	Microbursts
	Water vapor and cloud types		Ice	Practical tips for flying in rough weather
Ins	strument Failures and Unusual Att	itud	es	
	G1000 failures including AHRS		Figuring out which instruments	Partial panel
	and ADC		have failed	Recovering from unusual attitudes
Re	ading the Weather			
	METAR		In-flight weather advisories	Low level significant weather
	ASOS/AWOS		Supplemental and in-flight weather	prognostic chart
	TAF		services	High level significant weather prognostic chart
	GFA		Surface analysis chart	
	FD		Weather depiction chart	Severe weather forecasts
	. 5		Weather radar information	More upper air charts

Stage 1, Phase 2 Continued On Next Page

	IFR flight preparation and clearance - Develop skills in preparing for an IFR flight including: weather briefings, filing the flight plan, and copying, understanding, and flying an IFR clearance.							
	Unusual attitudes and failed instruments (G1000) - Recover the airplane from unusual flight attitudes, recognize primary flight instrument failures and control the aircraft using standby instruments. For airplanes equipped with G1000.							
	Unusual attitudes and failed instruments (analog) - Recover the airplane from unusual flight attitudes, recognize primary flight instrument failures and control the aircraft using standby instruments. For airplanes equipped with analog flight instruments.							
	Increasing proficiency (G1000) - Increase proficiency and accuracy with instrument cross-check and interpretation, and aircraft control. For airplanes equipped with G1000.							
			se proficiency and accuracy with ine ped with analog flight instruments.	strume	ent cross-check and interpretation,			
	Increasing proficiency (G1000 ATD) - Increase proficiency and accuracy with instrument cross-check and interpretation, and aircraft control. G1000 ATD may be used.							
	Increasing proficiency (analog ATD) - Increase proficiency and accuracy with instrument cross-check and interpretation, and aircraft control. Analog ATD may be used.							
	Progress check (G1000) - See nex	xt paç	ge. For airplanes equipped with G10	000.				
	Progress check (analog) - See nex	xt paç	ge. For airplanes equipped with ana	log fli	ght instruments.			
<u>Gr</u>	ound Training Tasks							
	Recovery from unusual flight attitudes		Shorthand to write down the clearance		System and instrument failures affecting IFR flights			
<u>Fli</u>	ght Training Tasks							
	Risk management		Copying your clearance		Timed turns to magnetic headings			
	Preflight preparation		Runway incursion avoidance		Compass turns to magnetic			
	Preflight inspection		procedures		headings			
	Filing an IFR flight plan		Checklist usage		Compliance with ATC clearances			
	Alternate planning		Cockpit management		Loss of primary flight instruments			
	How to receive your clearance		Collision avoidance		Recovery from unusual flight attitudes			
			Basic instrument flight maneuvers	;				
<u>Ph</u>	ase 2 Completion Standards							
	Can accurately and safely prepare	for a	n IFR flight					
	Have improved your ability to more	e pred	cisely fly basic instrument maneuve	rs				
	Can use the magnetic compass ar	nd tim	e to make turns to a desired headir	ng				
	Can copy, understand, and fly a cl	earar	nce					
	Have reviewed the Phase Progress Report with your instructor							

Flight Scenarios

Pass the Progress Check (see next page)

Stage 1, Phase 2A: Progress/Stage Check

The Progress/Stage Check is to be completed after completing the Phase 2 Proficiency Checklist. An appropriate instructor will check the progress of your learning and the effective pairing of you and your primary instructor.

Objective: To check that your progress in the course is sufficient to move to the next phase of training.

Progress/Stage Check

Perform basic instrument flight maneuvers

	Risk management		Preflight inspection		Loss of primary flight instruments		
	Preflight preparation		Checklist usage		Timed turns to magnetic headings		
	Weather briefing and/or acceptable		Instrument cockpit check		Compass turns to magnetic		
	weather resources		Runway incursion avoidance		headings		
	Takeoff and landing data		Cockpit management		Recovery from unusual flight attitudes		
	Weight and balance	П	Collision avoidance				
П	Charts				After landing, parking and securing		
_			Basic instrument flight maneuvers				
<u>Pro</u>	Progress/Stage Check - Completion Standards						
	Demonstrate knowledge of risk management						
	Can perform the preparation necessary for an IFR flight						

Stage 2, Phase 3: GPS, NDB and VOR Navigation

Objective: This phase provides the pilot-in-training the opportunity to develop skills and gain confidence using RNAV, GPS, NDB and VOR avionics systems for IFR navigation. In addition the pilot-in-training will learn to apply these skills flying IFR departure procedures.

Web-based Knowledge Objectives Understanding RNAV and GPS Navigation GPS requirements and using GPS **Enroute GPS** for IFR Creating and modifying a GPS Loading instrument procedures RNP flight plan **Understanding NDB Navigation ADF** Moveable card indicator ADF RMI orientation and navigation Homing and bearings to the station □ Intercepting and tracking NDB bearings **Understanding VOR Navigation VOR Checks** Intercepting and tracking VOR radials **VOR Navigation** Using an HSI for VOR navigation Receiving localizers on the VOR radios Reading the Weather Safe IFR departures Departing airports without control VFR weather minimums towers Departure procedure charts (ODPs Special VFR Airspace system and SIDs) Departing airports with control Class A - G airspace towers Flight Scenarios GPS for IFR use and ADF/NDB navigation - Familiarize with the GPS and its use for IFR navigation. If the airplane has a functioning ADF, navigate using a non-directional beacon (NDB). ATD may be used. VOR navigation - Enhance skill in using the VOR for situational awareness and intercepting and tracking radials . ATD may be used. Flying published departure procedures - Become familiar with and fly published departure procedures. ATD may be used. **Ground Training Tasks** ADF/NDB navigation for IFR How to receive an IFR clearance **Published Obstacle Departure** at a towered and non-towered **Procedures** GPS for IFR navigation airport

Stage 2, Phase 3 Continued On Next Page

VOR for IFR navigation

Flight Training Tasks Aeronautical decision making Navigation system orientation Recovery from unusual flight (GPS and/or NDB) attitudes Risk management Navigation system course Compliance with published Preflight preparation intercepting and tracking (GPS departure procedures and/or NDB) Checklist usage Understanding required climb VOR accuracy check Determining suitability of GPS for gradient IFR flight Navigation system orientation Compliance with ATC clearances (VOR) Familiarity with avionics Basic instrument flight maneuvers Navigation system course Instrument cockpit check intercepting and tracking (VOR) Navigating to a waypoint or an off-Victor airway intercepting and airway fix at a safe altitude tracking **Phase 3 Completion Standards** Can determine if the navigation aid is suitable for IFR use Maintain situational awareness when using navigation aids Can accurately intercept and track navigation systems

Correct for wind drift as needed to maintain on course

Have reviewed the Phase Progress Report with instructor

Stage 2, Phase 4: Holding Patterns and DME Arcs

Web-based Knowledge Objectives

Objective: This phase introduces holding patterns including their purpose and the requirements for entering, flying and making reports if the pilot has received a holding clearance. The pilot-in-training will also learn to fly DME arcs.

по	iding Patterns and Arrivais				
	The holding pattern		Holding at intersections and		Format and symbols on STAR
	How to fly a holding pattern		waypoints		charts
	Holding pattern entries		Flying holding patterns with the G1000		Loading and flying arrival procedures
DM	E Arcs				
□ А р	DME arcs using VOR and DME proach Charts		DME arcs using the G1000		
	Approach segments		Margin identification		Profile view
	Overview of approach charts		Pilot briefing		Minimums section
	Approach chart design		Plan view		Airport sketch
<u>Fli</u>	ght Scenarios				
			necessary to copy holding instruction make required reports. ATD may be		-
	DME arcs and non-published holdin pattern. ATD may be used.	g pa	atterns - How to fly a DME arc, and h	old a	at a fix without a published holding
	Progress/Stage Check - See next p	age.			
<u>Gr</u>	ound Training Tasks				
	Approach charts		Flying a holding pattern		Required ATC reports when
	Determining and flying the		How to fly a DME arc using GPS		holding
	appropriate entry to a holding pattern		How to fly a DME arc using VOR/		
	Determining your approach category		Intersection holding		
Fli	ght Training Tasks				
	Single-pilot resource management (SRM)		Intercepting and tracking navigational systems		Loss of primary flight instrument Intercepting and tracking DME
	Preflight preparation		Compliance with departure	Ш	arcs
	Instrument cockpit check		procedures		Non-published holding procedures
	Holding entries and procedures		Recovery from unusual flight attitudes		
	Basic instrument flight maneuvers				

Stage 2, Phase 4 Continued On Next Page

Phase 4 Completion Standards

Can perform all preparation required for an IFR flight
Able to determine the proper entry to a holding pattern, make all required ATC reports, and appropriately fly the holding pattern
Intercept and fly a DME arc
Passed the Progress/Stage Check (see next page)
Reviewed the Phase Progress Report with instructor

Stage 2, Phase 4A: Progress/Stage Check

Objective: Fly with a check instructor to ensure satisfactory course and skill level progress.

Pr	ogress/Stage Check - Ground (<u>Ora</u>	<u>U</u>					
	Required ATC reports when holding		Single-pilot resource management		Procedures for loss of communication in the hold			
<u>Pr</u>	ogress/Stage Check - Flight							
	Single-pilot resource management		Intercepting and tracking		Compliance with departure			
	Preflight preparation		navigational systems		procedures			
	Instrument cockpit check		Intercepting and tracking DME arcs		Recovery from unusual flight attitudes			
	Basic instrument flight maneuvers		Holding procedures		Loss of primary flight instrument			
<u>Pr</u>	ogress/Stage Check - Completi	on S	Standards					
	Perform and understand all preparation necessary for IFR flight							
	Perform to the specified standards							
	Demonstrate to the check instructor	tha	t the safety of flight is never in doubt					

Stage 3, Phase 5: Precision & Nonprecision Approaches

Objective: During this phase the pilot-in-training will fly both precision and nonprecision approach procedures while learning the visual references needed to make the decision to continue for landing. If the required references are not visible, they will follow the missed approach procedure.

Web-based Knowledge Objectives IFR Rules and Approach Types Pilot and airplane IFR Beyond the missed approach point Getting turned around to make an requirements approach Precision approaches and APVs How to fly a localizer course Maintaining your IFR skill Nonprecision approaches **ILS Approaches** Guidance Inoperative ILS components Flying the ILS Choosing which approach to fly Flying the missed approach Range Self-briefing the approach Visual components Runway visual range (RVR) Setting up for the approach Localizer Approaches Flying a localizer front course Flying SDF and LDA approaches Flying a localizer back course Flying DME arcs to a localizer **RNAV Approaches** LNAV/VNAV approach RNAV approaches GPS and missed approaches LPV and LP approaches LNAV approach Flight Scenarios ILS approaches - How to fly a precision approach, using vertical and lateral guidance to descend to the decision altitude / decision height and decide whether to make a missed approach or continue below the approach minimums visually. ATD may be used. RNAV (GPS) approaches with vertical guidance (WAAS) - How to fly an RNAV (GPS) approach with vertical guidance to the decision altitude and decide whether to make a missed approach or continue below the approach minimums visually. ATD may be used. RNAV (GPS) approaches without vertical guidance - How to fly an RNAV (GPS) nonprecision approach to the minimum descent altitude (MDA) and missed approach point, and decide whether to make a missed approach or continue below the approach minimums visually. ATD may be used. Localizer (LOC) approaches - How to fly a localizer nonprecision approach to the minimum descent altitude and missed approach point and decide whether to make a missed approach or continue below the approach minimums visually. ATD may be used. **Ground Training Tasks**

Nonprecision approach

Precision approach procedures

procedures

Approach briefing

Flying the approaches

Stage 3, Phase 5 Continued On Next Page

When a missed approach is

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required

Flight Training Tasks

	Single-pilot resource management		Load and verify RNAV approach into navigation system	Ш	altitude (MDA)		
	(SRM)						
	Checklist usage				Identify the missed approach point		
	Intercepting and tracking		RNAV approach with vertical		Localizer approach		
	navigational systems		guidance		Identify missed approach point		
	Communication with ATC		Intercept and track RNAV		using time from final approach fix		
	Compliance with ATC clearance		approach course		(FAF)		
	Approach briefing		Intercept and track electronic vertical guidance		Descend from MDA at visual descent point (VDP)		
	Vectors to final approach course		Terminal Arrival Area (TAA)		Execute missed approach		
	Intercept and track localizer course		procedure or course reversal		procedure		
	Intercept and track the glideslope		RNAV approach without vertical guidance		Transition to landing from an approach		
<u>Ph</u>	Phase 5 Completion Standards						
	Consistently and safely control the airplane in all phases of an instrument approach						
	Recognize when a missed approach is required and safely initiate missed approach procedures						
	Have reviewed the Phase Progress Report with your instructor						

Stage 3, Phase 6: Automation, ATC and Other Approaches

Objective: In this phase, the pilot-in-training will polish their skill with precision and nonprecision approaches. The pilot-in-training will also discover the value of using the autopilot for instrument approaches. In addition you'll learn about using a circling maneuver to align with the landing runway.

approaches. In addition you'll learn about using a circling maneuver to align with the landing runway. **Web-based Knowledge Objectives Incorporating Automation** How an automatic flight control Using an automatic flight control system (AFCS) works system (AFCS) **VOR and NDB Approaches** □ VOR approach NDB approach ATC Clearances, Services, and More Approaches Clearances Radar services in the terminal area Circling approaches IFR clearances that include VFR Aeronautical information manual Contact and visual approaches conditions (AIM) **ATC Procedures** □ Increasing traffic flow Communications failure Complete radio failure Flight Scenarios VOR/NDB approaches - How to fly a VOR nonprecision approach to the minimum descent altitude and missed approach point and decide whether to make a missed approach or continue below the approach minimums. If your airplane has a functioning ADF and there is a NDB approach available, you will also fly a nonprecision NDB approach. ATD may be used. Circling approaches - Fly a circling approach to the minimum descent altitude, initiate a circle-to-land maneuver as appropriate for the category of aircraft, and land on the appropriate runway. More ILS and nonprecision approaches - Polish the ability to fly a precision instrument approach while incorporating departure and holding procedures. ATD may be used. Progress/Stage Check - See next page. **Ground Training Tasks** Circling approach Loss of communications Using an automatic flight control system Determining circling approach Required ATC communications minima Flight Training Tasks Single-pilot resource management VOR/NDB approach Transition to landing from a circling approach Preflight preparation Descend to minimum descent altitude (MDA) Holding procedures Checklist usage Identify the missed approach point Loss of communications Communication with ATC (MAP) Precision approach Compliance with ATC clearance Circling approach Nonprecision approach Departure procedures Determine circling minima Execute missed approach Approach briefing Select and fly circling maneuver procedure Terminal Arrival Area (TAA)

Execute missed approach during

16

circling approach

procedure or course reversal

Transition to landing from a

straight-in approach

Phase 6 Completion Standards

Fully understand instrument approach procedures
Fly precision and nonprecision instrument approaches to meet the airman certification standards
Make required communications with ATC
Understand procedures for loss of communications
Maintain situational awareness during actual or simulated IMC flights
Use the checklist throughout the flight and on the ground as necessary
Make safety-conscious approach briefings
Have reviewed the Phase Progress Report with the instructor

Stage 3, Phase 6A: Progress/Stage Check

Demonstrate to the check instructor that the safety of flight is never in doubt

Objective: Fly with a check instructor to ensure you're able to safely fly instrument approaches to meet the airman certification standards.

<u>Pr</u>	<u>ogress/Stage Check - Ground (</u>	<u>Ora</u>	<u>D</u>			
	Circling approach		Loss of communications		Using an automatic flight control	
	Determining circling approach minima		Required ATC communications		system	
<u>Pr</u>	ogress/Stage Check - Flight					
	Single-pilot resource management		VOR/NDB approach		Transition to landing from a circling	
	Preflight preparation		Descend to minimum descent		approach	
	Checklist usage		altitude (MDA)		Holding procedures	
	Communication with ATC		Identify the missed approach point (MAP)		Loss of communications	
	Compliance with ATC clearance				Precision approach	
	·		Circling approach		Nonprecision approach	
Ш	Departure procedures		Determine circling minima	П	Execute missed approach	
	Approach briefing		Select and fly circling maneuver		procedure	
	Terminal Arrival Area (TAA) procedure or course reversal		Execute missed approach during circling approach		Transition to landing from a straight-in approach	
Progress/Stage Check - Completion Standards						
	Perform and understand all preparation necessary for IFR flight					
	Can safely perform instrument approach procedures to meet the airman certification standards					
	Apply single-pilot resource management					

Stage 4, Phase 7: IFR Cross Country

Web-based Knowledge Objectives

Objective: Here the pilot-in-training will learn the steps involved in planning for and flying safe cross countries under Instrument Flight Rules. During a long cross country the pilot-in-training will use three different types of IFR approach procedures.

Pro	ocedure For Flying Cross Country	IFR				
	Radar procedures and services enroute		IFR procedures and reports			
Pla	nning Your Cross-Country Flight					
	Chart supplement		Preflight planning			
	Gathering weather information		IFR flight plan			
Sa	fety Tips and Tools					
	Visual illusions		Avoiding special hazards at		Personal minimums	
	Aeromedical factors and oxygen		airports		PAVE checklist	
	rules		Visual glideslope indicators		CARE checklist	
	Avoiding other aircraft		Airport signs and markings		Two rules for safe IFR flying	
	Arriving IFR at a non-towered		Flying in icing conditions			
	airport		Operating the autopilot during IFR			
	Flying across pressure and temperature changes		flight			
Fli	ght Scenarios					
	-	ام ما 4				
	Flying an IFR cross country - Plan and fly an instrument cross-country flight to your destination airport.					
	Approach with loss of primary flight instruments (ATD) - Fly an instrument approach with failed primary flight instruments. ATD may be used.					
	Long IFR cross country - Fly a 250 nm distance along airways or ATC-directed routing, with one segment of the flight consisting of at least a straight-line distance of 100 nm between airports.					
<u>Gr</u>	<u>ound Training Tasks</u>					
	Cross-country flight planning		Filing an IFR flight plan and alternate planning		IFR procedures and reports	
<u>Fli</u>	ght Training Tasks					
	Single-pilot resource management		Required ATC reports		loss of primary flight instruments	
	(SRM)		Intercepting and tracking		Landing from a straight-in or	
	Task management		navigational systems		circling approach	
	Automation management		Precision approach		Autopilot use	
	Situational awareness		Nonprecision approach		Compliance with departure, en	
	Cross-country planning procedures		Precision approach with the loss of		route, and arrival procedures	
	Communication with ATC		primary flight instruments		Alternator failure in IMC	
	Compliance with ATC clearances		Nonprecision approach with the		No-flap approach and landing	

Stage 4, Phase 7 Continued On Next Page

Phase 7 Completion Standards

Complete FAA IFR cross-country requirements
Maintain situational awareness during actual or simulated IMC flights
Use the checklist throughout the flight and on the ground as necessary
Make safety-conscious approach briefings
Have reviewed the Phase Progress Report with your instructor

Stage 4, Phase 8: Practical Test Preparation

Objective: In this phase the pilot-in-training will polish all the instrument flying skills and knowledge they have learned to meet or exceed the Instrument Rating Airman Certification Standards.

<u>W</u>	eb-based Knowledge Objective	<u>s</u>			
Ac	hieving Your Instrument Rating				
□ Fli	Passing the test ght Scenarios		Your new rating		
	Polishing all IFR skills - This is a recurrent Instrument Rating Airman C		flight before the final Progress/Stage ication Standards.	e Ch	eck in order to polish all skills to the
	Final Progress/Stage Check - See	next	page.		
<u>Gr</u>	ound Training Tasks				
	Aeronautical decision making		Crew resource management		Situational awareness
	Aircraft systems related to IFR		Cross-country flight planning		Special emphasis areas
	operations		Emergency instrument procedures		Task management
	Airplane flight instruments and navigation equipment		Instrument cockpit check		Terminal Publication Procedures
	Attitude instrument flying		Pilot qualifications		(TPP)
	Automation management		Positive exchange of flight controls	Ц	Use of checklists
	Controlled flight into terrain		Risk management		Use of distractions during practicatest
	awareness		Single-pilot resource management (SRM)		Weather information
<u>Fli</u>	ght Training Tasks				
	Single-pilot resource management		Holding procedures		Circling approach
	(SRM)		Basic instrument flight maneuvers		Landing from a straight-in or
	Preflight preparation		Recovery from unusual flight		circling approach
	Instrument cockpit check		attitudes		Emergency operations - Loss of communications
	Checklist usage		Intercepting and tracking		
	Communication with air traffic control and clearances		navigational systems and DME □ arcs	Emergency operations - Approach with loss of primary flight	
	Compliance with departure, en route, and arrival procedures and clearances		Nonprecision approach (NPA) Precision approach (PA)		instrument indicators
					Checking instrument and equipment
			Missed approach		
<u>Ph</u>	ase 8 Completion Standards				

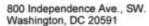
☐ Meet the standards outlined in the Instrument Rating Airman Certification Standards

Stage 4, Phase 8A: Progress/Stage Check

☐ Have demonstrated your ability as an instrument rated pilot

Objective: Complete the final Progress/Stage Check for the course.

<u>Pr</u>	<u>ogress/Stage Check - Ground (</u>	<u>Ora</u>	<u>U</u>		
	Aircraft systems related to IFR		Instrument cockpit check		Special emphasis areas
	operations		Pilot qualifications		Terminal Publication Procedures
	Airplane flight instruments and navigation equipment	П	Single-pilot resource management (SRM)		(TPP)
					Weather information
	Cross-country flight planning				
<u>Pr</u>	ogress/Stage Check - Flight				
	Single-pilot resource management		Holding procedures		Circling approach
	(SRM)		Basic instrument flight maneuvers		Landing from a straight-in or
	Preflight preparation		Recovery from unusual flight		circling approach
	Instrument cockpit check		attitudes		Emergency operations - Loss of
	Checklist usage		Intercepting and tracking		communications
	Communication with ATC and		navigation systems and DME arcs		Emergency operations - Approacl
Ш	clearances		Nonprecision approach (NPA)		with loss of primary flight instrument indicators
	Compliance with departure, en- route, and arrival procedures and clearances		Precision approach (PA)	П	Checking instruments and
			Missed approach		equipment
<u>Pr</u>	<u>ogress/Stage Check - Completi</u>	on S	<u>Standards</u>		
	Demonstrate the aeronautical knowledge and skill to safely perform at or above the airman certification standards and demonstrate sound decision-making				





FEB 01 2012

Mac McWhinney King Schools 3840 Calle Fortunada San Diego, CA 92123

Dear Mr. McWhinney:

The Federal Aviation Administration (FAA) has reviewed the King Schools, Inc. on-line Web Based Instructional Programs, Cessna Instrument Rating Training Course package (Revision 1.0) and finds that its instrument rating content appears to meet acceptable training standards for use under Title 14 of the Code of Federal Regulations (14 CFR) part 141. The curriculum contains sufficient ground and flight training hours needed for the instrument-airplane rating and is adequate in scope and content for use under part 141 provided all part 141 requirements are adhered to.

It is not the function of this office to certificate 14 CFR part 141 flight schools and this letter is not to be construed as an authorization to conduct part 141 operations. We are only acknowledging that the materials presented to the FAA's General Aviation and Commercial Division, AFS-800, would be appropriate for use in a certificated part 141 training environment. The authorization to operate a part 141 flight school using these or any other materials is and remains a function of the jurisdictional flight standards district office.

Thank you for allowing us the opportunity to review a well thought-out and carefully crafted flight and ground training product. If you have any further questions please don't hesitate to contact the General Aviation and Commercial Division at (202) 385-9600.

Sincerely,

Original Signed By Melvin O. Cintron

Melvin O. Cintron Manager, General Aviation and Commercial Division

APPENDIX A

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A2 Rev. 1.10