



# Instrument Pilot

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Training Syllabus

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# Course Introduction

The purpose of this syllabus is to outline a suggested timeline of study to ensure the completion of all requirements under 14 CFR Part 61 flight training. This course of study provides a logical, and efficient way to maximize knowledge transfer and utilize the proven Gold Seal method to its full potential during both ground and flight training.

That being said, there is not a one-size-fits-all program that works with flight training. This syllabus can and should be deviated from, at the discretion of the CFII, if there is need for more time or extra review on subject matter.

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## Course Outline:

This course is broken into 3 phases.

Phase 1 – Instrument Fundamentals

Phase 2 – Cross-Country Planning & Approaches

Phase 3 – Checkride Prep

Each phase is broken into a series of lessons that include a flight component and a ground component. The flight component is to be accomplished with a Certificated Flight Instructor, in the location and aircraft of the students choosing. The ground school component will be accomplished by enrolling in Gold Seal's Instrument Pilot program at [www.GroundSchool.com](http://www.GroundSchool.com).

## Get the most out of this course:

### COME PREPARED!

Plan to block at least 0.5 hours before and after your scheduled training flights. During pre-flight this allows the opportunity to go over the previous lesson material and a briefing for that day's flight. Post-flight it will allow for a proper debrief and preparation for the lesson to come.

Make sure all required reading, quizzes, and homework are completed before showing up for a training flight. The cockpit is not a good classroom. Being prepared will save both time and money.

Allow for changes in pace. Every student learns at different speeds, and comparing one timeline to the next is not helpful. Goals are good and should be strived for, but not at the expense of safety.

The mastery of a subject will be determined by the CFI. Students will be evaluated on an individual basis, and endorsed based on their CFI's discretion.

For flight maneuvers being introduced to the student, there are no completion standards laid out for the student. There is a box to check when the maneuver has been demonstrated.

After a maneuver has been introduced and demonstrated to the student, the student will attempt the maneuver themselves. The student's performance will be rated on a 4-point grading scale.

### **The 4-Point Grading Scale:**

In accordance with the guidelines set forth in the Instrument Rating Airman Certification Standards (ACS), instructors will collect pilot performance data using a 4-point grading (rating) scale. These ratings will apply to all maneuvers that have previously been introduced and demonstrated. The scale values are as follows:

#### **Rating of 4 = Above Standard**

Proficiency with the maneuver consistently exceeds the Instrument Rating ACS standards. The task rated as a 4 was performed in such a manner as to demonstrate a high level of operational knowledge and skill by the pilot for a particular maneuver.

Indicators of "Above Standard" (4) performance:

- Meets or exceeds ACS standards. No errors.
- Threats managed and margin of safety clear and never in doubt.
- Demonstrates advanced levels of technical proficiency and depth of knowledge.
- Behavior indicates continuous and highly accurate situational awareness.
- Efficient use of all resources.
- Aircraft handling is smooth and precise.

#### **Rating of 3 = Standard**

Proficiency meets ACS standards which allows for momentary deviations from the standard. A task rated as a 3 was performed satisfactorily with only minor errors observed, and the individual recognized and corrected the error without assistance.

Indicators of "standard" (3) performance:

- Meets ACS standards. Errors trapped and remediated without intervention.
- Threats managed and undesired states avoided. Margin of safety maintained.
- Technical skills and knowledge meet the required level of competency.
- Situational awareness maintained.
- Aircraft handling is effective

The instructor will inform the pilot of the minor errors noted.

## **Rating of 2 = Acceptable – With a debrief**

Proficiency intermittently falls below standards, requiring a debrief with the student. A task rated as a 2 was performed within safe parameters, but errors in procedure and/or aircraft handling were noted. The task may have been performed with momentary transgressions of the established ACS standards.

Indicators of “Acceptable – With a debrief” (2) performance:

- Deviations from ACS standards occur. Errors are corrected by the student in a timely manner.
- Undesired states occur but are managed. Safety of flight is not affected.
- Technical skills and knowledge reveal limited technical proficiency or depth of knowledge
- Situational awareness lapses that are identified and corrected.
- Flight management skills are effective, but slightly below standard.
- Some items are addressed only when challenged or prompted by the instructor.
- Aircraft handling is uncoordinated.
- Did not contribute to the assessment of the situation or development of a course of action.

The instructor shall debrief the student regarding this task performance.

## **Rating of 1 = Unsatisfactory**

The outcome of the maneuver is in doubt; proficiency consistently falls below ACS standards. A task rated as a 1 is clearly unsatisfactory. The task was performed in an unsafe manner and clearly outside of the established certification standards.

Indicators of “Unsatisfactory” (1) performance:

- Unacceptable deviations from the ACS standards. Errors not recognized or corrected.
- Threats not managed. Safety of flight affected.
- Technical skills and knowledge reveal unacceptable levels of technical proficiency and/or depth of knowledge.
- Lapses in situational awareness that are not identified or corrected by the student.
- Flight management skills are ineffective.
- Aircraft handling is ineffective.

# Course Instructions:

For each lesson there will be an objective, introductions, required flight tasks, required ground study, and quizzes. The order in which the flight portions are accomplished are at the CFII's discretion, but these are all tasks that must be accomplished to meet the required Instrument Rating Airmen Certification Standards.

The objective will be the ultimate goal of the lesson and the determining factor as to whether the student is ready to move on to the next lesson or not.

The introductions are new tasks to be shown to the student. The student is not expected to be held to any standards when seeing and attempting these for the first time.

Required flight tasks are intended to be graded in accordance with the standards laid out in the Instrument Rating Airman Certification Standards.

Required ground study and quizzes will be in association with the student's enrollment in Gold Seal's Instrument Pilot Program. Students will log in to [www.GroundSchool.com](http://www.GroundSchool.com) to accomplish the correct Section and Module assigned for that lesson and take any associated quizzes.

The instructor will monitor the student's progress and quiz results from Gold Seal's "Instructor Portal".

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# Suggested Equipment:

- Flight Bag (small duffel or backpack will work fine)
- Paper or Digital Logbook (US Standard)
- E6B Flight Computer
- Plotter
- Current Enroute Charts and Terminal Procedures Publications
- Current FAR/AIM
- Kneeboard
- Headset
- View Limiting Device (E.G. "Foggles")
- FAA Instrument Flying Handbook (digital or paper)

# Simulator Usage For Instrument Rating:

Although not required, the use of simulators for Instrument training can be an incredible resource. It allows you to stop, reset, and talk about things. The airplane is not a good classroom, and the FAA allows for a certain amount of time to count towards your initial Instrument Rating as well as maintaining Instrument Currency in the future.

The hours allowed to be logged toward your Instrument Rating hour requirements depend on whether you are training Part 61 or Part 141. They are as follows...

## Part 61:

- BATD: Maximum of 10 hours
- AATD: Maximum of 20 hours
- Combination of FFS, FTD, ATD: Maximum of 20 hours
- The device must be approved and authorized by the FAA.
- The FAA must approve the instrument training and instrument tasks performed in the device.
- An authorized instructor must provide the instrument time in the device.

## Part 141:

- FFS: Up to 50% of the required course hours can be logged
- FTD: Up to 40% of the required course hours can be logged
- AATD: Up to 40% of the required course hours can be logged
- BATD: Up to 25% of the required course hours can be logged
- Combination of ATD and FTD: Up to 40% of the required course can be logged
- Combination of FFS, FTD, and ATD: Up to 50% of the required course hours can be logged
- The device must be approved and authorized by the FAA.
- The FAA must approve the instrument training and instrument tasks performed in the device.
- An authorized instructor must provide the instrument time in the device.
- The ATD must be used in conjunction with an FAA-approved integrated ground and flight instrument training syllabus.

# Simulator Types and Definitions:

## Types of simulators approved for Instrument training:

- FFS: Full Flight Simulator
- FTD: Flight Training Device
- ATD: Aviation Training Device
- BATD: Basic Aviation Training Device
- AATD: Advanced Aviation Training Device

### Full Flight Simulator (FFS):

- Full-size cockpit replica of a specific type of aircraft, or make, model, and series of aircraft.
- Includes the hardware and software necessary to represent the aircraft in ground and flight operations.
- Uses a force cueing system that provides cues at least equivalent to those cues provided by a 3 degree freedom-of-motion system.
- Uses a visual system that provides at least a 45 degree horizontal field of view and a 30 degree vertical field of view simultaneously for each pilot.
- Has been evaluated, qualified, and approved by the FAA in accordance with *14 CFR 61.4(a)* includes FFS levels A through D

### Flight Training Device (FTD):

- Full-size replica of the instruments, equipment panels, and controls of an aircraft in an open flight deck area or in an enclosed cockpit, including the hardware and software for the systems installed that are necessary to simulate the aircraft in ground and flight operations.
- Need to have a force (motion) cueing or visual system
- Has been evaluated, qualified, and approved by the FAA, or has been authorized for specific use under *14 CFR 61.4(a) or (b)*, as appropriate.
- Includes levels 4 through 7 (for airplane)

### Aviation Training Device (ATD):

- Includes a replica of aircraft instruments, equipment, panels, and controls in an open flight deck area or an enclosed aircraft cockpit.
- It includes the hardware and software necessary to represent a category and class of aircraft (or set of aircraft) operations in ground and flight conditions having the appropriate range of capabilities and systems installed in the device for the specific Basic or Advanced qualification level.
- ATDs cannot be used for practical tests, aircraft type specific training, or for an aircraft type rating.

### **Basic Aviation Training Device (BATD):**

- Meets minimum acceptable criteria of *AC 61-136B, Appendix B, BATD*.
- Provides an adequate training platform and design for both procedural and operational performance tasks specific to the ground and flight training requirements for Private Pilot Certificate and Instrument Rating per 14 CFR Parts 61 and 141.
- Provides an adequate platform for both procedural and operational performance tasks required for instrument experience and pilot time.
- The FAA finds acceptable in a manner described in *AC 61-136B*.

### **Advanced Aviation Training Device (AATD):**

- Meets or exceeds the criteria outlined in *AC 61-136B, Appendix B, BATD*
- Meets or exceeds the criteria outlined in *AC 61-136B, Appendix C, AATD*
- Provides an adequate training platform for both procedural and operational performance tasks specific to the ground and flight training requirements for Private Pilot Certificate, Instrument Rating, Commercial Pilot Certificate, Airline Transport Pilot (ATP) Certificate, and Flight Instructor Certificates per Parts 61 and 141.
- Provides an adequate platform and design for both procedural and operational performances tasks required for instrument experience, the instrument proficiency check, and pilot time.
- The FAA finds acceptable in a manner described in *AC 61-136B*
- May be used for some of the required tasks of an Instrument Proficiency Check (IPC)



# Seven Configurations of Instrument Flight

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This planning table should be accomplished during the first Phase of Instrument training, and should be done with the help of a CFII.

Filling this out early allows for continuity and planning for each phase of flight and should be referenced on every flight until memorized.

(cut or fold)

Phase of Flight	Pitch	Power (MP/RPM)	Airspeed	VSI
<b>Initial Climb</b> (Based on 200 ft per NM)				
<b>Cruise Climb</b>				
<b>Cruise Level</b>				<b>0</b>
<b>Cruise Descent</b>				
<b>Approach Level</b>				<b>0</b>
<b>Precision Approach Descent</b>				
<b>Non-Precision Approach Descent</b>				

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**Phase 1**  
**Lesson 1**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will review the pitot-static and gyroscopic instruments.

**Lesson Content:**

- |   |  |
|---|--|
| ___ Review Altimeter                      | ___ Review Slip and Skid Indicator         |
| ___ Review Types of Altitude              | ___ Review Gyroscopic Instrument Errors    |
| ___ Review Vertical Speed Indicator       | ___ Review Glass Panel Flight Displays     |
| ___ Review Types of Airspeed              | ___ Review Traditional Instrument Displays |
| ___ Review Pitot-Static Instrument Errors |  |
| ___ Review Attitude Indicator             |  |
| ___ Review Gyro Driven Heading Indicator  |  |
| ___ Review Turn Coordinator               |  |
| ___ Review Turn and Bank Indicator        |  |

**Required Study:**

- \_\_\_\_\_ Section 1: Introduction - Watch this first!  
 \_\_\_\_\_ Section 1: Gyroscopic Instruments  
 \_\_\_\_\_ Section 1: Pitot-Static Instruments  
 \_\_\_\_\_ Section 1: Types of Altitude

**Quizzes:**

- \_\_\_\_\_ % Gyroscopic Instruments  
 \_\_\_\_\_ % Pitot-Static Instruments  
 \_\_\_\_\_ % Types of Altitude

**Student Signature:** \_\_\_\_\_ **Instructor Signature:** \_\_\_\_\_

**Phase 1**  
**Lesson 2**  
**GROUND**

Date: \_\_\_\_\_

Student Name: \_\_\_\_\_

Instructor Name &amp; #: \_\_\_\_\_

Ground: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will be introduced to concepts related to aircraft control under Instrument conditions.

**Lesson Content:**

- \_\_\_ Intro to Instrument Scan
- \_\_\_ Intro to Instrument Cross-Check
- \_\_\_ Intro to Instrument Interpretation
- \_\_\_ Intro to Aircraft Control
- \_\_\_ Intro to Performance Instruments
- \_\_\_ Intro to Control Instruments
- \_\_\_ Intro to Primary and Supporting Instruments

**Required Study:**

- \_\_\_ Section 1: Aircraft Requirements
- \_\_\_ Section 1: Primary and Supporting Instruments
- \_\_\_ Section 1: Three Fundamental Skills

**Quizzes:**

- \_\_\_ % Primary and Supporting Instruments

Student Signature: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

**Phase 1**  
**Lesson 3**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will be introduced to constant rate climbs and descents, steep turns, and climbing and descending turns while in simulated instrument conditions. The instructor will assist the student fill out performance table for the training aircraft (Located on page 8).

**Lesson Content:**

- \_\_\_ Intro to Straight-and-Level Flight
- \_\_\_ Intro to Constant-Rate Climbs
- \_\_\_ Intro to Constant-Rate Descents
- \_\_\_ Intro to Constant-Airspeed Climbs
- \_\_\_ Intro to Constant-Airspeed Descents
- \_\_\_ Intro to Climbing Turns
- \_\_\_ Intro to Descending Turns
- \_\_\_ Intro to Level - Offs
- \_\_\_ Intro to Steep Turns

**Required Study:**

- \_\_\_ Section 1: National Airspace System
- \_\_\_ Section 1: Instrument Preflight

**Quizzes:**

- \_\_\_ % National Airspace System
- \_\_\_ % Instrument Preflight

**Student Signature:** \_\_\_\_\_ **Instructor Signature:** \_\_\_\_\_

**Phase 1**  
**Lesson 4**  
**GROUND**

Date: \_\_\_\_\_

Student Name: \_\_\_\_\_

Instructor Name &amp; #: \_\_\_\_\_

Ground: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will review the magnetic compass and standard rate turns.

**Lesson Content:**

- |   |  |
|---|--|
| ___ Intro to Magnetic Compass Construction                    | ___ Intro to Partial Panel Instrument Flight |
| ___ Intro to Principles of Magnetic Attraction                | ___ Intro to Unusual Attitude Recovery       |
| ___ Intro to Magnetic Dip                                     |  |
| ___ Intro to Magnetic Variation                               |  |
| ___ Intro to Magnetic Deviation                               |  |
| ___ Intro to Northerly Turning Errors                         |  |
| ___ Intro to Acceleration Errors                              |  |
| ___ Intro to Turns to Magnetic Compass Headings               |  |
| ___ Intro to Emergency Alternatives to Magnetic Compass Turns |  |
| ___ Intro to Calibrated Turn Coordinator                      |  |
| ___ Intro to Timed Turns                                      |  |

**Required Study:**

- \_\_\_ Section 2: Magnetic Compass  
 \_\_\_ Section 1: Unusual Attitude Recoveries

**Quizzes:**

- \_\_\_ % Magnetic Compass  
 \_\_\_ % Unusual Attitude Recoveries

Student Signature: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

**Phase 1**  
**Lesson 5**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will be introduced to instrument pre-flight procedures, the instrument scan, and basic attitude instrument flying.

**Lesson Content:**

\_\_\_ Intro to Instrument Pre-Flight  
 \_\_\_ Intro to Instrument Scan

**Flight Tasks:**

- Straight-and-Level Flight 1 2 3 4
- Constant-Speed Climbs 1 2 3 4
- Constant-Speed Descents 1 2 3 4
- Constant-Rate Climbs 1 2 3 4
- Constant-Rate Descents 1 2 3 4
- Level-Offs and Trim Usage 1 2 3 4
- Climbing Turns 1 2 3 4
- Climbing Descents 1 2 3 4

**Required Study:**

\_\_\_ Section 1: Pilot Requirements  
 \_\_\_ Section 1: Currency Requirements

**Quizzes:**

\_\_\_ % Currency Requirements

Student Signature: \_\_\_\_\_ Instructor Signature: \_\_\_\_\_

**Phase 1**  
**Lesson 6**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will be introduced to magnetic compass turns, timed turns, partial panel instrument flight, and unusual flight attitude recoveries. Simulation of realistic and unexpected system failures, as well as emergency alternatives to magnetic compass turns.

**Lesson Content:**

- \_\_\_ Intro to Timed Turns
- \_\_\_ Intro to Magnetic Course Turns
- \_\_\_ Intro to Partial Panel Flight
- \_\_\_ Intro to Instrument Failures
- \_\_\_ Intro to Unusual Attitudes - Partial Panel
- \_\_\_ Intro to Unusual Attitudes - Full Panel
- \_\_\_ Intro to Emergency Alternatives to Compass

**Flight Tasks:**

- Instrument Scan 1 2 3 4
- Instrument Preflight Inspection 1 2 3 4

**Required Study:**

- \_\_\_ Section 2: TAA Technically Advanced Airplanes

**Quizzes:**

- \_\_\_ % TAA Technically Advanced Airplanes

Student Signature: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

**Phase 1**  
**Lesson 7**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will review partial panel instrument flight, unusual attitude recoveries, unexpected system failures, instrument scans, and performance table.

**Lesson Content:**

**Flight Tasks:**

- |                                     |   |   |   |   |
|-------------------------------------|---|---|---|---|
| • Magnetic Course Turns             | 1 | 2 | 3 | 4 |
| • Instrument Failures               | 1 | 2 | 3 | 4 |
| • Unusual Attitudes - Full Panel    | 1 | 2 | 3 | 4 |
| • Unusual Attitudes - Partial Panel | 1 | 2 | 3 | 4 |
| • Instrument Scan                   | 1 | 2 | 3 | 4 |
| • Steep Turns                       | 1 | 2 | 3 | 4 |
| • Standard Rate Turns               | 1 | 2 | 3 | 4 |

**Required Study:**

\_\_\_\_\_ Section 2: HSI - The Horizontal Situation Indicator

**Quizzes:**

\_\_\_\_\_ % HSI - The Horizontal Situation Indicator

**Student Signature:** \_\_\_\_\_

**Instructor Signature:** \_\_\_\_\_



**Phase 1**  
**Lesson 8**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will review all basics of attitude flight using a view limiting device.

**Flight Tasks:**

- |                                     |         |                      |         |
|-------------------------------------|---------|----------------------|---------|
| • Instrument Pre-Flight             | 1 2 3 4 | • Level Offs         | 1 2 3 4 |
| • Constant Rate Climbs              | 1 2 3 4 | • Straight-And-Level | 1 2 3 4 |
| • Constant Rate Descents            | 1 2 3 4 | • Instrument Scan    | 1 2 3 4 |
| • Constant Speed Climbs             | 1 2 3 4 |                      |         |
| • Constant Speed Descents           | 1 2 3 4 |                      |         |
| • Climbing Turns                    | 1 2 3 4 |                      |         |
| • Descending Turns                  | 1 2 3 4 |                      |         |
| • Magnetic Course Turns             | 1 2 3 4 |                      |         |
| • Instrument Failures               | 1 2 3 4 |                      |         |
| • Unusual Attitudes - Full Panel    | 1 2 3 4 |                      |         |
| • Unusual Attitudes - Partial Panel | 1 2 3 4 |                      |         |
| • Standard Rate Turns               | 1 2 3 4 |                      |         |

**Required Study:**

- \_\_\_\_\_ Section 3: Airport Diagrams  
 \_\_\_\_\_ Section 3: Runway Signs and Markings

**Quizzes:**

- \_\_\_\_\_ % Airport Diagrams  
 \_\_\_\_\_ % Runway Signs and Markings

**Student Signature:** \_\_\_\_\_ **Instructor Signature:** \_\_\_\_\_

**Phase 1**  
**Lesson 8.5**  
**DUAL LOCAL**

Date: _____	Aircraft: _____	Airport(s): _____
Student Name: _____		
Instructor Name & #: _____		
Dual: _____	Solo: _____	X-Country: _____ Instrument: _____

**Lesson Objective:**

**Optional lesson based on access to aircraft automation**

During this lesson, the student will be introduced to the principles of automation and autopilot operation.

**Lesson Content:**

- \_\_\_ Intro to Principles of Automation
- \_\_\_ Intro to Autopilot Disconnect Options
- \_\_\_ Intro to Autopilot Limitations
- \_\_\_ Intro to Autopilot Usage
- \_\_\_ Intro to Disconnect Options
- \_\_\_ Intro to Autopilot Specific Features
- \_\_\_ Intro to Control Wheel Steering

**Required Study:**

None

**Quizzes:**

None

**Student Signature: \_\_\_\_\_ Instructor Signature: \_\_\_\_\_**

**Phase 1**  
**Lesson 9**  
**GROUND**

Date: \_\_\_\_\_

Student Name: \_\_\_\_\_

Instructor Name &amp; #: \_\_\_\_\_

Ground: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will review and discuss VOR fundamentals.

**Lesson Content:**

- \_\_\_ Intro to VOR Principles of Operation
- \_\_\_ Intro to VOR Transmitters and Receivers
- \_\_\_ Intro to VOR Frequency Ranges
- \_\_\_ Intro to VOR Class Designations and Service Volumes
- \_\_\_ Intro to VOR Errors and Irregularities
- \_\_\_ Intro to VOR Tuning and Identifying
- \_\_\_ Intro to VOR Orientation
- \_\_\_ Intro to VOR Intercepting
- \_\_\_ Intro to VOR Tracking
- \_\_\_ Intro to VOR Tracking and Wind Correction Techniques
- \_\_\_ Intro to VOR Station Passage

**Required Study:**

- \_\_\_ Section 2: VOR Operations - Part 1

**Quizzes:**

None

Student Signature: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

**Phase 1**  
**Lesson 10**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will be introduced to VOR procedures.

**Lesson Content:**

- \_\_\_\_\_ Intro to VOR Tuning and Identifying
- \_\_\_\_\_ Intro to VOR Orientation, Position, and Station Passage
- \_\_\_\_\_ Intro to VOR Radial Intercepting and Tracking
- \_\_\_\_\_ Intro to VOR Tracking Wind Corrections
- \_\_\_\_\_ Intro to VOR Airborne Checks

**Required Study:**

- \_\_\_\_\_ Section 2: VOR Operations - Part 2

**Quizzes:**

None

Student Signature: \_\_\_\_\_ Instructor Signature: \_\_\_\_\_

**Phase 1**  
**Lesson 11**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will review all basics of VOR procedures in the training aircraft.

**Flight Tasks:**

- VOR Tuning and Identifying 1 2 3 4
- VOR Station Passage 1 2 3 4
- VOR Orientation and Position 1 2 3 4
- VOR Radial Intercepting and Tracking 1 2 3 4
- VOR Tracking Wind Correction 1 2 3 4
- VOR Tracking TO and FROM 1 2 3 4
- VOR Airborne Checks 1 2 3 4

**Required Study:**

\_\_\_\_\_ Section 2: VOR Operations - Part 3

**Quizzes:**

\_\_\_\_\_ % VOR Operations - Part 3

Student Signature: \_\_\_\_\_ Instructor Signature: \_\_\_\_\_

**Phase 1**  
**Lesson 12**  
**GROUND**

Date: \_\_\_\_\_

Student Name: \_\_\_\_\_

Instructor Name &amp; #: \_\_\_\_\_

Ground: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will discuss the principles of GPS operation.

**Lesson Content:**

- |  |   |
|--|---|
| ___ Intro to GPS Principles of Operation                     | ___ Intro to Orientation, Position, and Passage |
| ___ Intro to GPS Modes of Operation                          | ___ Intro to Waypoint Sequencing                |
| ___ Intro to GPS Errors and Irregularities                   | ___ Intro to Computer/ App-Based Procedures     |
| ___ Intro to Wide Area Augmentation System (WAAS)            |   |
| ___ Intro to Receiver Autonomous Integrity Monitoring (RAIM) |   |
| ___ Intro to GPS Use Under IFR                               |   |
| ___ Intro to CDI Scaling (Enroute, Terminal, and Approach)   |   |
| ___ Intro to GPS Waypoints                                   |   |
| ___ Intro to GPS Direct-To Operations                        |   |
| ___ Intro to GPS Nearest Functions                           |   |
| ___ Intro to Substitution of GPS For Other Navigation Aids   |   |

**Required Study:**

- \_\_\_\_\_ Section 2: GPS Overview  
 \_\_\_\_\_ Section 2: GPS Navigation - Part 1

**Quizzes:**

None

Student Signature: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

**Phase 1**  
**Lesson 13**  
**DUAL LOCAL**

Date: _____ Aircraft: _____ Airport(s): _____
Student Name: _____
Instructor Name & #: _____
Dual: _____ Solo: _____ X-Country: _____ Instrument: _____

**Lesson Objective:**

During this lesson, the student will be introduced to GPS procedures and VOR procedures will be reviewed.

**Lesson Content:**

\_\_\_ Intro to GPS Direct-To Operations  
 \_\_\_ Intro to GPS Flight Plan Operations  
 \_\_\_ Intro to GPS Nearest Function  
 \_\_\_ Intro to GPS Orientation and Position  
 \_\_\_ Intro to Installed GPS-Specific Procedures  
 \_\_\_ Intro to GPS Course Intercepting and Tracking  
 \_\_\_ Intro to GPS Waypoint Passage

**Flight Tasks:**

• VOR Tuning and Identifying	1 2 3 4
• VOR Station Passage	1 2 3 4
• VOR Orientation and Position	1 2 3 4
• VOR Radial Intercepting and Tracking	1 2 3 4
• VOR Tracking Wind Corrections	1 2 3 4
• VOR Airborne Checks	1 2 3 4

**Required Study:**

\_\_\_\_\_ Section 2: GPS Navigation - Part 2

**Quizzes:**

\_\_\_\_\_ % GPS Navigation - Part 2

**Student Signature:** \_\_\_\_\_

**Instructor Signature:** \_\_\_\_\_

**Phase 1**  
**Lesson 14**  
**GROUND**

Date: \_\_\_\_\_

Student Name: \_\_\_\_\_

Instructor Name &amp; #: \_\_\_\_\_

Ground: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will be introduced to the Federal Aviation Regulations (FARs) contained in 14 CFR and the sections of the Aeronautical Information Manual (AIM) that pertain to instrument flight.

**Lesson Content:**

- |  |                        |
|--|------------------------|
| ___ Intro to 14 CFR Regulations - Applicable to IFR  | ___ Intro to Chapter 4 |
| ___ Intro to Part 1                                  | ___ Intro to Chapter 5 |
| ___ Intro to Part 43                                 | ___ Intro to Chapter 6 |
| ___ Intro to Part 61                                 | ___ Intro to Chapter 7 |
| ___ Intro to Part 91                                 |                        |
| ___ Intro to Part 97                                 |                        |
| ___ Intro to NTSB 830                                |                        |
| ___ Intro to AIM - Chapters Applicable to IFR Flight |                        |
| ___ Intro to Chapter 1                               |                        |
| ___ Intro to Chapter 2                               |                        |
| ___ Intro to Chapter 3                               |                        |

**Required Study:**

- \_\_\_ Section 8: Pilot Regulations

**Quizzes:**

- \_\_\_ % Pilot Regulations

Student Signature: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_



**Phase 1**  
**Lesson 15**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

**PHASE CHECK: Phase 1**

During this lesson, the student will complete an Instrument Phase 1 assessment. All maneuvers must be scored as a "3" or higher to continue. Upon successful completion of this phase check, the student will be cleared to advance to Phase 2.

**Flight Tasks:**

• Instrument Pre-Flight	1 2 3 4	• VOR Procedures	1 2 3 4
• Instrument Flight Deck Check	1 2 3 4	• GPS Procedures	1 2 3 4
• Instrument Aircraft Systems	1 2 3 4	• Partial Panel Instrument Flight	1 2 3 4
• Aircraft Flight Instruments	1 2 3 4	• Autopilot Procedures	1 2 3 4
• IFR Required Equipment	1 2 3 4		
• Inspection Requirements for IFR Flight	1 2 3 4		
• Control and Performance Instruments	1 2 3 4		
• Primary and Supporting Instruments	1 2 3 4		
• Magnetic Compass Errors	1 2 3 4		
• Instrument Take Off	1 2 3 4		
• Steep Turns	1 2 3 4		
• Unusual Attitude Recovery	1 2 3 4		

**Required Study:**

\_\_\_\_\_ Section 8: Plane Regulations

**Quizzes:**

\_\_\_\_\_ % Plane Regulations

**Student Signature:** \_\_\_\_\_

**Instructor Signature:** \_\_\_\_\_

**Phase 2****Lesson 1****GROUND**

Date: \_\_\_\_\_

Student Name: \_\_\_\_\_

Instructor Name &amp; #: \_\_\_\_\_

Ground: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will be introduced to Terminal Procedures Publications.

**Lesson Content:**

- |   |  |
|---|--|
| ___ Intro to Terminal Procedures Publication        | ___ Intro to FIR Alternate Minimums          |
| ___ Intro to Aircraft Approach Categories           | ___ Intro to Radar Instrument Approach Mins. |
| ___ Intro to Inoperative Instrument Components      | ___ Intro to Pilot Briefing Section          |
| ___ Intro to Airport Surface Hot Spots              | ___ Intro to Plan View                       |
| ___ Intro to IFR Take-Off Minimums                  | ___ Intro to Profile View                    |
| ___ Intro to Declared Distance Information          | ___ Intro to Airport Diagram                 |
| ___ Intro to Published Departure Procedures         | ___ Intro to Missed Approach Section         |
| ___ Intro to "Climb via SID" Clearance              | ___ Intro to Circling Radius                 |
| ___ Intro to ATC Communication                      | ___ Intro to Descent Planning                |
| ___ Intro to Situational Awareness During Departure | ___ Intro to Standard Terminal Arrivals      |
| ___ Intro to Climb and Descent Tables               | ___ Intro to "Descend via STAR" Clearance    |

**Required Study:**

- \_\_\_\_\_ Section 5: Approach Charts - Overview
- \_\_\_\_\_ Section 3: Instrument Departures
- \_\_\_\_\_ Section 3: Instrument Arrivals

**Quizzes:**

- \_\_\_\_\_ % Approach Charts - Overview
- \_\_\_\_\_ % Instrument Departures
- \_\_\_\_\_ % Instrument Arrivals

Student Signature: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

**Phase 2**  
**Lesson 2**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will be introduced to the instrument landing system and instrument approaches.

**Lesson Content:**

- \_\_\_ Intro to Localizer Principles of Operation
- \_\_\_ Intro to Glideslope Principles of Operation
- \_\_\_ Intro to Marker Beacons
- \_\_\_ Intro to ILS Receiving Equipment
- \_\_\_ Intro to ILS Categories
- \_\_\_ Intro to ILS Errors and Irregularities
- \_\_\_ Intro to Localizer and Glideslope Critical Areas
- \_\_\_ Intro to Simplified Directional Facility
- \_\_\_ Intro to Localizer-Type Directional Aid
- \_\_\_ Intro to Precision Instrument Approaches
- \_\_\_ Intro to Back Course Approaches
- \_\_\_ Intro to APV Instrument Approaches

**Required Study:**

- \_\_\_\_\_ Section 2: The Runway Localizer
- \_\_\_\_\_ Section 2: ILS - Instrument Landing System
- \_\_\_\_\_ Section 3: Runway Lighting Systems

**Quizzes:**

- \_\_\_\_\_ % The Runway Localizer
- \_\_\_\_\_ % ILS Instrument Landing System
- \_\_\_\_\_ % Runway Lighting Systems

**Student Signature:** \_\_\_\_\_

**Instructor Signature:** \_\_\_\_\_

**Phase 2**  
**Lesson 3**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will be introduced to ILS and back course approach procedures.

**Lesson Content:**

- \_\_\_ Intro to ILS Approach (full and vectored)
- \_\_\_ Intro to Landing From an ILS Approach
- \_\_\_ Intro to Back Course Approach
- \_\_\_ Intro to Missed Approach Procedures

**Required Study:**

- \_\_\_\_\_ Section 5: Missed Approaches
- \_\_\_\_\_ Section 5: Precision, Non-Precision, and APV

**Quizzes:**

- \_\_\_\_\_ % Missed Approaches

**Student Signature:** \_\_\_\_\_ **Instructor Signature:** \_\_\_\_\_

**Phase 2**  
**Lesson 4**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will be introduced to various types of instrument approaches without a glideslope or vertical navigation. The student will also review ILS procedures.

**Lesson Content:**

- \_\_\_ Intro to Non-Precision Approaches
- \_\_\_ Intro to Approach Briefing
- \_\_\_ Intro to Timed Approaches
- \_\_\_ Intro to Radar Approaches
- \_\_\_ Intro to Visual Approaches
- \_\_\_ Intro to Contact Approaches
- \_\_\_ Intro to VOR Approaches
- \_\_\_ Intro to Charted Visual Procedures
- \_\_\_ Intro to Visual Descent Point
- \_\_\_ Intro to Circling Approaches
- \_\_\_ Intro to Vectored Approaches
- \_\_\_ Intro to Instrument Lighting Systems

**Flight Tasks:**

- ILS Approach Full Procedure 1 2 3 4
- ILS Approach Vectored 1 2 3 4
- Back Course Approach 1 2 3 4
- Missed Approach Procedure 1 2 3 4

**Required Study:**

- \_\_\_\_\_ Section 5: Approach Minimums - Part 1
- \_\_\_\_\_ Section 5: Approach Minimums - Part 2

**Quizzes:**

- \_\_\_\_\_ % Approach Minimums - Part 2

**Student Signature:** \_\_\_\_\_

**Instructor Signature:** \_\_\_\_\_

**Phase 2**  
**Lesson 5**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will be introduced to GPS approaches. The student will also review non-precision approaches.

**Lesson Content:**

\_\_\_ Intro to GPS Approach (LNAV)  
 \_\_\_ Intro to GPS Approach (LNAV/VNAV)  
 \_\_\_ Intro to Departure Vectors To Filed Route  
 \_\_\_ Intro to Climb Via SID Operations  
 \_\_\_ Intro to Terminal IFR Navigation  
 \_\_\_ Intro to Approach Setup and Briefing  
 \_\_\_ Intro to Landing From an Approach  
 \_\_\_ Intro to ATC Communication

**Flight Tasks:**

• VOR Approach 1 2 3 4  
 • Timed Approach 1 2 3 4  
 • Localizer Approach 1 2 3 4  
 • Missed Approach Procedure 1 2 3 4  
 • Visual Approach 1 2 3 4

**Required Study:**

\_\_\_\_\_ Section 5: Visual and Contact Approaches

**Quizzes:**

\_\_\_\_\_ % Visual and Contact Approaches

**Student Signature:** \_\_\_\_\_

**Instructor Signature:** \_\_\_\_\_

**Phase 2**  
**Lesson 6**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will be introduced to DME and DME Arcs. The student will also review GPS approaches.

**Lesson Content:**

- \_\_\_ Intro to DME Principles of Operation
- \_\_\_ Intro to DME Errors and Irregularities
- \_\_\_ Intro to DME Arc Intercepting
- \_\_\_ Intro to DME Arc Tracking
- \_\_\_ Intro to GPS as a Substitute for DME
- \_\_\_ Intro to Partial Panel Instrument Approaches

**Flight Tasks:**

- GPS Approach (LNAV) 1 2 3 4
- GPS Approach (LNAV/ VNAV) 1 2 3 4
- Missed Approach 1 2 3 4
- Landing From an Approach 1 2 3 4

**Required Study:**

- \_\_\_\_\_ Section 3: Hydroplaning
- \_\_\_\_\_ Section 2: DME - Distance Measuring Equipment

**Quizzes:**

- \_\_\_\_\_ % Hydroplaning
- \_\_\_\_\_ % DME - Distance Measuring Equipment

**Student Signature:** \_\_\_\_\_

**Instructor Signature:** \_\_\_\_\_

**Phase 2**  
**Lesson 7**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will be introduced to circle to land procedures. The student will also review DME Arcs and partial panel approaches.

**Lesson Content:**

\_\_\_ Intro to Circling Minimums  
 \_\_\_ Intro to Circling Approach  
 \_\_\_ Intro to Precision to "Circle to Land" Approach

**Flight Tasks:**

• DME Arc Intercepting 1 2 3 4  
 • DME Arc Tracking 1 2 3 4  
 • Partial Panel Precision Approach 1 2 3 4  
 • Partial Panel Non-Precision Approach 1 2 3 4

**Required Study:**

\_\_\_\_\_ Section 3: Departure Clearances

**Quizzes:**

\_\_\_\_\_ % Departure Clearances

**Student Signature:** \_\_\_\_\_

**Instructor Signature:** \_\_\_\_\_



**Phase 2**  
**Lesson 8**  
**GROUND**

Date: \_\_\_\_\_

Student Name: \_\_\_\_\_

Instructor Name & #: \_\_\_\_\_

Ground: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will be introduced to aeromedical factors.

**Lesson Content:**

- \_\_\_ Intro to Visual Illusions
- \_\_\_ Intro to Hypoxic Hypoxia
- \_\_\_ Intro to Stagnant Hypoxia
- \_\_\_ Intro to Hypemic Hypoxia
- \_\_\_ Intro to Histotoxic Hypoxia
- \_\_\_ Intro to Oxygen Requirements
- \_\_\_ Intro to Spatial Disorientation

**Required Study:**

- \_\_\_ Section 7: Optical Illusions
- \_\_\_ Section 7: Hypoxia and Hyperventilation

**Quizzes:**

- \_\_\_ % Optical Illusions
- \_\_\_ % Hypoxia and Hyperventilation

**Student Signature:** \_\_\_\_\_

**Instructor Signature:** \_\_\_\_\_

**Phase 2**  
**Lesson 9**  
**DUAL LOCAL**

Date: _____	Aircraft: _____	Airport(s): _____
Student Name: _____		
Instructor Name & #: _____		
Dual: _____	Solo: _____	X-Country: _____ Instrument: _____

**Lesson Objective:**

During this lesson, the student will be introduced to standard terminal arrivals. The student will also review ILS, back course, GPS, VOR, and APV approach procedures.

**Lesson Content:**

\_\_\_\_ Intro to Standard Terminal Arrivals (STARs)

**Flight Tasks:**

- |                              |   |   |   |   |
|------------------------------|---|---|---|---|
| • ILS Approach               | 1 | 2 | 3 | 4 |
| • Back Course Approach       | 1 | 2 | 3 | 4 |
| • RNAV Approach (LPV)        | 1 | 2 | 3 | 4 |
| • RNAV Approach (LNAV/ VNAV) | 1 | 2 | 3 | 4 |
| • ATC Communications         | 1 | 2 | 3 | 4 |
| • Terminal IFR Navigation    | 1 | 2 | 3 | 4 |
| • Approach Set Up and Brief  | 1 | 2 | 3 | 4 |
| • VOR Approach               | 1 | 2 | 3 | 4 |
| • RNAV Approach (LNAV)       | 1 | 2 | 3 | 4 |
| • Missed Approach Procedures | 1 | 2 | 3 | 4 |

**Required Study:**

\_\_\_\_\_ Section 3: Wake Turbulence Avoidance

**Quizzes:**

\_\_\_\_\_ % Wake Turbulence Avoidance

**Student Signature:** \_\_\_\_\_

**Instructor Signature:** \_\_\_\_\_

**Phase 2**  
**Lesson 10**  
**GROUND**

Date: \_\_\_\_\_

Student Name: \_\_\_\_\_

Instructor Name &amp; #: \_\_\_\_\_

Ground: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will be introduced to holding and the associated procedures along with IFR clearances.

**Lesson Content:**

- |   |  |
|---|--|
| <input type="checkbox"/> Intro to Holding                         | <input type="checkbox"/> Intro to Use of DME While Holding   |
| <input type="checkbox"/> Intro to Purposes of Holding             | <input type="checkbox"/> Intro to Use of GPS While Holding   |
| <input type="checkbox"/> Intro to Published Holds                 | <input type="checkbox"/> Intro to Intersection Holding       |
| <input type="checkbox"/> Intro to Legs of a Holding Pattern       | <input type="checkbox"/> Intro to Hold Required Calls        |
| <input type="checkbox"/> Intro to Standard vs. Non-Standard Holds | <input type="checkbox"/> Intro to ATC Clearances             |
| <input type="checkbox"/> Intro to Maximum Holding Speeds          | <input type="checkbox"/> Intro to Clearance Compliance       |
| <input type="checkbox"/> Intro to Hold Entry Procedures           | <input type="checkbox"/> Intro to Standard Terminal Arrivals |
| <input type="checkbox"/> Intro to Holding With Wind Corrections   |  |
| <input type="checkbox"/> Intro to Holding Clearances              |  |
| <input type="checkbox"/> Intro to Fix Crossing Check (5T's)       |  |
| <input type="checkbox"/> Intro to Timing in a Hold                |  |

**Required Study:**

- Section 4: Holding Procedures - Part 1  
 Section 4: Holding Procedures - Part 2

**Quizzes:**

- % Holding Procedures - Part 2

Student Signature: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

**Phase 2**  
**Lesson 11**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will be introduced to holding procedures and IFR clearances. The student will also review precision and non-precision approaches.

**Lesson Content:**

\_\_\_ Intro to Holding Procedures  
 \_\_\_ Intro to Hold Entry Procedures  
 \_\_\_ Intro to Holding Wind Corrections  
 \_\_\_ Intro to DME Usage in a Hold  
 \_\_\_ Intro to Required Reporting in a Hold  
 \_\_\_ Intro to Departure Clearances  
 \_\_\_ Intro to Standard Take Off Minimums  
 \_\_\_ Intro to Obstacle Departure Procedures

**Flight Tasks:**

• ATC Communication	1	2	3	4
• ATC Clearances	1	2	3	4
• Climb Via SID	1	2	3	4
• ILS Approach	1	2	3	4
• Missed Approach	1	2	3	4
• Landing From an Approach	1	2	3	4
• Descend Via STAR	1	2	3	4

**Required Study:**

\_\_\_\_\_ Section 8: Spatial Disorientation

**Quizzes:**

\_\_\_\_\_ % Spatial Disorientation

**Student Signature:** \_\_\_\_\_

**Instructor Signature:** \_\_\_\_\_

**Phase 2**  
**Lesson 12**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will review holding procedures, non-precision approaches, instrument departures and circling maneuvers.

**Flight Tasks:**

- |                               |         |                               |         |
|-------------------------------|---------|-------------------------------|---------|
| • Climb via SID               | 1 2 3 4 | • Non-Precision Partial Panel | 1 2 3 4 |
| • Hold Procedures             | 1 2 3 4 | • Precision Partial Panel     | 1 2 3 4 |
| • Hold Entries                | 1 2 3 4 | • Missed Approaches           | 1 2 3 4 |
| • ATC Departures Clearances   | 1 2 3 4 | • Autopilot Procedures        | 1 2 3 4 |
| • ATC Communications          | 1 2 3 4 |                               |         |
| • VOR Approaches              | 1 2 3 4 |                               |         |
| • LOC Approaches              | 1 2 3 4 |                               |         |
| • RNAV Approaches (LNAV only) | 1 2 3 4 |                               |         |
| • Timed Approaches            | 1 2 3 4 |                               |         |
| • Circling Procedures         | 1 2 3 4 |                               |         |
| • ILS "Circle to Land"        | 1 2 3 4 |                               |         |
| • Landing from an Approach    | 1 2 3 4 |                               |         |

**Required Study:**

- \_\_\_\_\_ Section 6: Weather Theory Part 1  
 \_\_\_\_\_ Section 6: Weather Theory Part 2

**Quizzes:**

- \_\_\_\_\_ % Weather Theory Part 2

**Student Signature:** \_\_\_\_\_ **Instructor Signature:** \_\_\_\_\_

**Phase 2**  
**Lesson 12.5**  
**DUAL LOCAL**

Date: _____	Aircraft: _____	Airport(s): _____
Student Name: _____		
Instructor Name & #: _____		
Dual: _____	Solo: _____	X-Country: _____ Instrument: _____

**Lesson Objective:**

**Optional lesson based on access to aircraft automation**

During this lesson, the student will be introduced to the use of automation in conjunction with approach procedures.

**Lesson Content:**

- \_\_\_ Intro to VOR Approaches with Autopilot
- \_\_\_ Intro to GPS Approaches (LNAV only) with Autopilot
- \_\_\_ Intro to GPS Approaches (LNAV/ VNAV or LPV) with Autopilot
- \_\_\_ Intro to ILS Approaches with Autopilot
- \_\_\_ Intro to LOC Approaches with Autopilot
- \_\_\_ Intro to Missed Approach with Autopilot
- \_\_\_ Intro to SIDs with Autopilot
- \_\_\_ Intro to Holding Procedures with Autopilot

**Required Study:**

None

**Quizzes:**

None

**Student Signature:** \_\_\_\_\_ **Instructor Signature:** \_\_\_\_\_

**Phase 2**  
**Lesson 13**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

**PHASE CHECK: Phase 2**

During this lesson, the student will complete an Instrument Phase 2 assessment. All maneuvers must be scored as a “3” or higher to continue. Upon completion of this phase check, the student will be cleared to move on to Phase 3. Autopilot should not be used during this phase check.

**Ground Portion:**

- Weather Information 1 2 3 4
- Holding Procedures 1 2 3 4
- Terminal Procedures Publication 1 2 3 4
- Approach Charts 1 2 3 4
- Published Departure Procedures 1 2 3 4
- Standard Terminal Arrival Procedures 1 2 3 4
- Partial Panel Approaches 1 2 3 4

**Flight Tasks:**

- ATC Clearances 1 2 3 4
- Clearance Compliance 1 2 3 4
- Holding Procedures 1 2 3 4
- Non-Precision Approach 1 2 3 4
- RNAV Approach (LNAV only) 1 2 3 4
- RNAV Approach (LNAV/ VNAV) 1 2 3 4
- Precision Approach 1 2 3 4
- Missed Approach 1 2 3 4
- Circling Approach 1 2 3 4
- Non-Precision Partial Panel 1 2 3 4
- Precision Partial Panel 1 2 3 4
- Landing from an Approach 1 2 3 4

**Required Study:**

None

**Quizzes:**

None

**Student Signature:** \_\_\_\_\_

**Instructor Signature:** \_\_\_\_\_

**Phase 3****Lesson 1****GROUND**

Date: \_\_\_\_\_

Student Name: \_\_\_\_\_

Instructor Name &amp; #: \_\_\_\_\_

Ground: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will review weather forecasts and reports.

**Lesson Content:**

- \_\_\_ Intro to Graphical Forecasts for Aviation
- \_\_\_ Intro to Terminal Aerodrome Forecasts
- \_\_\_ Intro to METARs
- \_\_\_ Intro to Wind/ Temperatures Aloft
- \_\_\_ Intro to Pilot Reports
- \_\_\_ Intro to Radar Summary Charts
- \_\_\_ Intro to Surface Analysis Charts
- \_\_\_ Intro to Freezing Level Charts
- \_\_\_ Intro to Upper Level Charts
- \_\_\_ Intro to Significant Weather Prognostic Charts
- \_\_\_ Intro to SIGMETs, AIRMETs, and Convective SIGMETs
- \_\_\_ Intro to Recognition of Critical Weather Situations
- \_\_\_ Intro to Wind Shear Avoidance

**Required Study:**

- \_\_\_\_\_ Section 4: Inflight Icing - Part 1
- \_\_\_\_\_ Section 6: Aviation Weather Charts

**Quizzes:**

- \_\_\_\_\_ % Aviation Weather Charts

Student Signature: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_



**Phase 3**  
**Lesson 2**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will be introduced to IFR cross-country planning and review executing instrument approaches.

**Lesson Content:**

- \_\_\_ Intro to Lost Communications Procedures
- \_\_\_ Intro to Enroute and Terminal Weather
- \_\_\_ Intro to Planning an Alternate
- \_\_\_ Intro to Preparation of an IFR Navigation Log
- \_\_\_ Intro to Planning Departures and Arrivals
- \_\_\_ Intro to Power and Fuel Management
- \_\_\_ Intro to Fuel Planning
- \_\_\_ Intro to Copying and Understanding IFR Clearances

**Flight Tasks:**

- ATC Communication 1 2 3 4
- Non-Precision Approach 1 2 3 4
- Precision Approach 1 2 3 4
- Missed Approach 1 2 3 4
- Circle To Land 1 2 3 4

**Required Study:**

- \_\_\_\_\_ Section 4: Enroute Charts - Part 1
- \_\_\_\_\_ Section 5: Approach Alternates

**Quizzes:**

None

**Student Signature:** \_\_\_\_\_

**Instructor Signature:** \_\_\_\_\_

**Phase 3****Lesson 3****GROUND**

Date: \_\_\_\_\_

Student Name: \_\_\_\_\_

Instructor Name &amp; #: \_\_\_\_\_

Ground: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will be introduced to enroute IFR publications and procedures.

**Lesson Content:**

- \_\_\_ Intro to Chart Supplement
- \_\_\_ Intro to VFR/ IFR Low Altitude Planning Charts
- \_\_\_ Intro to Enroute Low Altitude IFR Charts
- \_\_\_ Intro to Enroute Chart Symbology
- \_\_\_ Intro to Air Traffic Service (ATS) Route System
- \_\_\_ Intro to Intersections and Changeover Points
- \_\_\_ Intro to ATS Route Course Changes
- \_\_\_ Intro to Flight Deck Management
- \_\_\_ Intro to Position Reporting Requirements
- \_\_\_ Intro to Additional Reporting Requirements
- \_\_\_ Intro to Lost Communications Procedures (IMC and VMC)

**Required Study:**

- \_\_\_\_\_ Section 4: Enroute Charts - Part 2
- \_\_\_\_\_ Section 4: Cruise, VFR on Top

**Quizzes:**

- \_\_\_\_\_ % Enroute Charts - Part 2
- \_\_\_\_\_ % Cruise, VFR on Top

Student Signature: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

**Phase 3**  
**Lesson 4**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will be introduced to IFR cross-country planning and review executing instrument approaches.

**Lesson Content:**

- \_\_\_ Intro to Simulated Lost Coms Procedures
- \_\_\_ Intro to Enroute and Terminal Weather
- \_\_\_ Intro to Planning an Alternate
- \_\_\_ Intro to Preparation of an IFR Navigation Log
- \_\_\_ Intro to Planning Departures and Arrivals
- \_\_\_ Intro to Power and Fuel Management
- \_\_\_ Intro to Fuel Planning
- \_\_\_ Intro to Copying and Understanding IFR Clearances

**Flight Tasks:**

- ATC Communication 1 2 3 4
- Non-Precision Approach 1 2 3 4
- Precision Approach 1 2 3 4
- Missed Approach 1 2 3 4
- Circle To Land 1 2 3 4

**Required Study:**

- \_\_\_\_\_ Section 4: Lost Communications

**Quizzes:**

- \_\_\_\_\_ % Lost Communications

**Student Signature:** \_\_\_\_\_

**Instructor Signature:** \_\_\_\_\_

**Phase 3****Lesson 5****GROUND**

Date: \_\_\_\_\_

Student Name: \_\_\_\_\_

Instructor Name &amp; #: \_\_\_\_\_

Ground: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will be introduced to IFR cross-country flight planning.

**Lesson Content:**

- \_\_\_ Intro to Charts and Publications
- \_\_\_ Intro to Weather Briefing
- \_\_\_ Intro to NOTAMs
- \_\_\_ Intro to Determination of an Alternate
- \_\_\_ Intro to Preferred IFR Routes
- \_\_\_ Intro to Planning DPs/ STARs
- \_\_\_ Intro to Takeoff Minimums
- \_\_\_ Intro to Cruising Altitudes
- \_\_\_ Intro to Aircraft Performance
- \_\_\_ Intro to Flight Plan Filing
- \_\_\_ Intro to Flight Deck Management
- \_\_\_ Intro to Aeronautical Decision-Making and Judgement
- \_\_\_ Intro to Crew Resource Management (CRM)

**Required Study:**

- \_\_\_\_\_ Section 6: Aviation Weather Reports
- \_\_\_\_\_ Section 8: Planning Regulations

**Quizzes:**

- \_\_\_\_\_ % Aviation Weather Reports
- \_\_\_\_\_ % Planning Regulations

Student Signature: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

**Phase 3**  
**Lesson 6**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will review IFR cross-country planning and executing instrument approaches. The cross-country should be planned to multiple airports with at least one airport more than 75 nautical miles from the departure airport. All airports should be sufficiently spaced to allow the student substantial enroute time.

**Flight Tasks:**

- Dealing with Enroute Weather 1 2 3 4
- Preparation of an IFR Nav Log 1 2 3 4
- Planning Departures and Arrivals 1 2 3 4
- Power/ Fuel Management 1 2 3 4
- Filing an IFR Flight Plan 1 2 3 4
- Copying/ Understanding IFR Clearances 1 2 3 4
- Non-Precision Approach 1 2 3 4
- RNAV Approaches (LNAV only) 1 2 3 4
- Precision Approach 1 2 3 4
- Missed Approach Procedures 1 2 3 4
- Circle To Land Procedures 1 2 3 4

**Required Study:**

\_\_\_\_\_ Section 6: Wind shear and Microbursts

**Quizzes:**

\_\_\_\_\_ % Wind shear and Microbursts

**Student Signature:** \_\_\_\_\_

**Instructor Signature:** \_\_\_\_\_

**Phase 3****Lesson 7****GROUND**

Date: \_\_\_\_\_

Student Name: \_\_\_\_\_

Instructor Name &amp; #: \_\_\_\_\_

Ground: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will be introduced to weather conditions associated with IFR flight and the hazards of aircraft icing.

**Lesson Content:**

\_\_\_ Intro to Conditions for Ice Formation

\_\_\_ Intro to Formation of Frost

\_\_\_ Intro to Formation of Clear Ice

\_\_\_ Intro to Formation of Rime Ice

\_\_\_ Intro to Formation of Mixed Ice

\_\_\_ Intro to Carburetor Icing

\_\_\_ Intro to Icing Intensities

\_\_\_ Intro to PIREPs Specific to Icing

\_\_\_ Intro to AIRMETs Specific to Icing

\_\_\_ Intro to SIGMETs Specific to Icing

\_\_\_ Intro to Winds/ Temps Aloft Forecast

\_\_\_ Intro to Deicing and Anti-Icing Equipment

\_\_\_ Intro to Icing Avoidance Strategies

\_\_\_ Intro to Inadvertent Icing Encounters

\_\_\_ Intro to Flight Into Known Icing

**Required Study:**

\_\_\_ Section 4: Inflight Icing - Part 2

**Quizzes:**

\_\_\_ % Inflight Icing - Part 2

Student Signature: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

**Phase 3**  
**Lesson 8**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will review IFR cross-country flight planning and decision-making and executing instrument approaches.

**Flight Tasks:**

- |  |         |
|--|---------|
| • Dealing with Enroute Weather           | 1 2 3 4 |
| • Preparation of an IFR Nav Log          | 1 2 3 4 |
| • Planning Departures and Arrivals       | 1 2 3 4 |
| • Lost Communications Procedures         | 1 2 3 4 |
| • DME Arc                                | 1 2 3 4 |
| • Copying/ Understanding IFR Clearances  | 1 2 3 4 |
| • Non-Precision Approach - Partial Panel | 1 2 3 4 |
| • Precision Approach                     | 1 2 3 4 |
| • Missed Approach Procedures             | 1 2 3 4 |
| • Circle To Land Procedures              | 1 2 3 4 |

**Required Study:**

\_\_\_\_\_ Section 6: Atmospheric Stability

**Quizzes:**

\_\_\_\_\_ % Atmospheric Stability

**Student Signature:** \_\_\_\_\_

**Instructor Signature:** \_\_\_\_\_

**Phase 3**  
**Lesson 9**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

During this lesson, the student will review IFR cross-country flight planning and executing instrument approaches. This cross-country flight of at least 250 nautical miles, along airways or on ATC-directed routing, with one segment of the flight consisting of at least a straight-line distance of 100 nautical miles between airports; involving an instrument approach at each airport; and involving three different kinds of approaches with the use of navigational systems. The autopilot can be used where appropriate to assist in the management of the aircraft.

**Flight Tasks:**

- |   |         |
|---|---------|
| • Filing an IFR Flight Plan             | 1 2 3 4 |
| • Copying/ Understanding IFR Clearances | 1 2 3 4 |
| • Dealing with Enroute Weather          | 1 2 3 4 |
| • Preparation of an IFR Navigation Log  | 1 2 3 4 |
| • Planned Departures and Arrivals       | 1 2 3 4 |
| • Power/ Fuel Management                | 1 2 3 4 |
| • Non-Precision Approach                | 1 2 3 4 |
| • Precision Approach                    | 1 2 3 4 |
| • Missed Approach Procedures            | 1 2 3 4 |
| • Circle To Land Procedures             | 1 2 3 4 |
| • Approaches with an Autopilot          | 1 2 3 4 |

**Required Study:**

None

**Quizzes:**

None

**Student Signature:** \_\_\_\_\_

**Instructor Signature:** \_\_\_\_\_



**Phase 3**  
**Lesson 10**  
**GROUND**

Date: \_\_\_\_\_

Student Name: \_\_\_\_\_

Instructor Name &amp; #: \_\_\_\_\_

Ground: \_\_\_\_\_

**Lesson Objective:****PHASE CHECK:** Phase 3

During this lesson, the student will complete an Instrument Phase 3 knowledge assessment. All subjects must be scored as a “3” or higher to continue. Upon completion of this phase check, the student will be cleared to move on to Phase 3 flight check.

**Lesson Content:**

- \_\_\_ Review Instrument Pilot Knowledge Test
- \_\_\_ Review Weather Information
- \_\_\_ Review Cross-Country Flight Planning
- \_\_\_ Review Aircraft Systems Related to IFR Flight
- \_\_\_ Review Flight/ Navigational Equipment
- \_\_\_ Review Instrument Flight Deck Check
- \_\_\_ Review FARs Related to IFR Flight
- \_\_\_ Review Pilot Qualifications

**Required Study:**

None

**Quizzes:**

None

Student Signature: \_\_\_\_\_

Instructor Signature: \_\_\_\_\_

**Phase 3**  
**Lesson 11**  
**DUAL LOCAL**

Date: \_\_\_\_\_ Aircraft: \_\_\_\_\_ Airport(s): \_\_\_\_\_  
 Student Name: \_\_\_\_\_  
 Instructor Name & #: \_\_\_\_\_  
 Dual: \_\_\_\_\_ Solo: \_\_\_\_\_ X-Country: \_\_\_\_\_ Instrument: \_\_\_\_\_

**Lesson Objective:**

**PHASE CHECK: Phase 3**

During this lesson, the student will complete an Instrument Phase 3 assessment. All maneuvers must be scored as a "3" or higher to continue. Upon completion of this phase check, the student will be cleared to move on to checkride prep. Autopilot should not be used during this phase check.

**Flight Tasks:**

- |  |         |                                      |         |
|--|---------|--------------------------------------|---------|
| • Instrument Flight Deck Check           | 1 2 3 4 | • RNAV Approaches                    | 1 2 3 4 |
| • Compliance with ATC Clearances         | 1 2 3 4 | • Precision Approach                 | 1 2 3 4 |
| • Communications                         | 1 2 3 4 | • Missed Approach Procedures         | 1 2 3 4 |
| • Holding Procedures                     | 1 2 3 4 | • Circling Approach                  | 1 2 3 4 |
| • Instrument Flight                      | 1 2 3 4 | • Lost Comms Procedures              | 1 2 3 4 |
| • Partial Panel Instrument Flight        | 1 2 3 4 | • Checking Instruments and Equipment | 1 2 3 4 |
| • Recovery From Unusual Attitudes        | 1 2 3 4 |                                      |         |
| • Intercepting/ Tracking Nav. Systems    | 1 2 3 4 |                                      |         |
| • Departure, Enroute, Arrival Procedures | 1 2 3 4 |                                      |         |
| • Non Precision Approach - Full Approach | 1 2 3 4 |                                      |         |
| • Non Precision Approach - Vectored      | 1 2 3 4 |                                      |         |
| • Non Precision Approach - Partial Panel | 1 2 3 4 |                                      |         |

**Required Study:**

None

**Quizzes:**

None

**Student Signature:** \_\_\_\_\_

**Instructor Signature:** \_\_\_\_\_

# Checkride Prep

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## Checkride Preparation

During this phase of training, the instructor will use this checklist to evaluate the student and determine the next lessons. All tasks should be graded as a “3” or higher in order to be considered “checkride ready.”

If a task is not graded as a “3” or higher, the instructor should use the blank lesson plan provided to create a custom lesson focusing on the students tasks that need improvement.

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### Preflight Preparations:

- Certificates and documents ..... 1 2 3 4
- Airworthiness requirements ..... 1 2 3 4
- Weather information ..... 1 2 3 4
- Systems ..... 1 2 3 4
- IFR regulations ..... 1 2 3 4
- Aeromedical factors ..... 1 2 3 4
- Instrument currency requirements ..... 1 2 3 4

### Cross-country planning:

- Fuel planning ..... 1 2 3 4
- Filing a flight plan ..... 1 2 3 4
- IFR nav log ..... 1 2 3 4
- National Airspace System ..... 1 2 3 4
- Performance and limitations ..... 1 2 3 4
- Departure charts ..... 1 2 3 4
- Alternate planning ..... 1 2 3 4

### Preflight Operations:

- Instrument preflight inspection ..... 1 2 3 4
- Required IFR instruments and checks ..... 1 2 3 4

### Airport Operations:

- Departure clearances ..... 1 2 3 4
- Radio communications ..... 1 2 3 4
- Standard instrument departures ..... 1 2 3 4

## Instrument Maneuvers:

- Straight-and-level flight: simulated instrument ..... 1 2 3 4
- Constant airspeed climbs/ descents: simulated instrument ..... 1 2 3 4
- Constant rate climbs/ descents: simulated instrument ..... 1 2 3 4
- Turns to headings: simulated instrument ..... 1 2 3 4
- Recovery from unusual flight attitudes: simulated instrument ..... 1 2 3 4
- Use of navigation systems: simulated instrument ..... 1 2 3 4
- Steep turns: simulated instrument ..... 1 2 3 4
- Instrument cross-check ..... 1 2 3 4
- Partial panel operations ..... 1 2 3 4
- Emergency procedures ..... 1 2 3 4
- Primary and supporting instruments ..... 1 2 3 4

## Enroute Procedures:

- Lost communications ..... 1 2 3 4
- Enroute weather ..... 1 2 3 4
- Fuel and power management ..... 1 2 3 4
- Clearance limits ..... 1 2 3 4
- Position reporting ..... 1 2 3 4
- VOR course tracking ..... 1 2 3 4
- GPS course tracking ..... 1 2 3 4
- Standard Terminal Arrivals ..... 1 2 3 4
- Magnetic compass errors ..... 1 2 3 4

## Approach Procedures:

- Published visual approaches ..... 1 2 3 4
- Timed approaches ..... 1 2 3 4
- DME Arc ..... 1 2 3 4
- Non-precision approaches ..... 1 2 3 4
- Circling approaches ..... 1 2 3 4
- Precision approaches ..... 1 2 3 4
- Back course approaches ..... 1 2 3 4
- Missed approach procedures ..... 1 2 3 4
- Holding procedures ..... 1 2 3 4
- Published course reversals ..... 1 2 3 4
- Instrument lighting systems ..... 1 2 3 4

**Checkride Prep  
Lesson \_\_\_\_\_**

Date: _____	Aircraft: _____	Airport(s): _____
Student Name: _____		
Instructor Name & #: _____		
Dual: _____	Solo: _____	X-Country: _____ Instrument: _____

**Lesson Objective:**

**CHECKRIDE PREP**

During this lesson, the student will complete any flight tasks deemed necessary for checkride prep. All flight tasks must be graded as a "3" or above in order to be considered "checkride ready."

**Flight Tasks:**

• _____	1 2 3 4	• _____	1 2 3 4
• _____	1 2 3 4	• _____	1 2 3 4
• _____	1 2 3 4	• _____	1 2 3 4
• _____	1 2 3 4	• _____	1 2 3 4
• _____	1 2 3 4	• _____	1 2 3 4
• _____	1 2 3 4	• _____	1 2 3 4
• _____	1 2 3 4	• _____	1 2 3 4
• _____	1 2 3 4	• _____	1 2 3 4
• _____	1 2 3 4	• _____	1 2 3 4
• _____	1 2 3 4	• _____	1 2 3 4
• _____	1 2 3 4	• _____	1 2 3 4

**Required Study:**

**Quizzes:**

**Student Signature: \_\_\_\_\_ Instructor Signature: \_\_\_\_\_**

# Pre Checkride Checklist:

## Documents (Eligibility Determination):

- Photo ID *61.3(a)(1)(2), AC 61.65 Appendix 2*
  - U.S. State issued driver's license or ID, passport, or US Armed Forces ID Card
  - Must be unexpired, government issued
  - Name is consistent with name on Airman's knowledge test result
  - Name is consistent with name on 8710-1 application
  - Meets minimum age requirement (Private: 18 years of age per *61.123(a)*)
- US Private Pilot Certificate *61.123(h)*
  - Provide cert. number
- Current Medical Certificate *61.3(c)(1)(2), 61.39(a)(4)*
  - Minimum 3<sup>rd</sup> Class Medical (for testing purposes) *61.23(a)*, or Basic Med *61.113(i), 61.23(c)(3), Part 68, AC 61-8*
- Airman's Knowledge Test results
  - Minimum score of 70% *61.39, 61.35(b), FAA-G-8082-17 Test Guide*
  - Must have been taken within 24 calendar months prior to the practical test *61.39(a)(1)*
- English: Read, write, and converse fluently in English *61.103(b), AC 60-68, 61.65(a)*
  
- IF 141 Grad:** 141 Graduation Certificate (signed within 60 days prior to test, 141 school graduates only).
- IF Re-test:** Provide a copy of the Notice of Disapproval, New Endorsed 8710-1, and logbook endorsement as below.
- IF** resuming a practical test under a Letter of Discontinuance, provide a copy of the Letter of Discontinuance

## Logbook Endorsements (AC 61.65H):

- Practical test prerequisites logbook endorsement per *FAR 61.39, reference AC 61.65H Page A6, Paragraph A1, A2, and page A13 paragraph A40 which is another example of the 61.39 endorsement.*
  - Date of endorsement is within 2 calendar months prior to the test date
  - Applicant is prepared for practical test
  - All missed FAA Knowledge Test Questions remediated by CFI
- Flight training endorsement for proficiency/ practical test per *61.65(a)(5)* and aeronautical experience per *61.65(a)(6) regarding 61.65 (c)(d), ref. AC 61.65 page A13, paragraph A39*
- Current Flight Review per *61.65, reference AC 61.65H page A18, paragraph A65*
- Evidence of ground training of *61.65(3)* in logbook or on home study course (like Gold Seal!)
- Airman Knowledge Test endorsement *FAR 61.35(a), 61.65(a)(4)* to take the Knowledge Test, reference *AC 61.65H page A12, paragraph A38*

## Part 61 Based Instrument Aeronautical Experience:

- Pilot In Command
  - 50 hours PIC Cross-Country
  - Minimum of 10 hours must be done in fixed wing airplanes
- Actual or simulated instrument hours
  - 15 hours dual instruction in actual or simulated conditions by CFII in subjects prescribed by *FAR 61.65(c)*
  - 3 hours airplane dual actual or simulated instrument by CFII of test preparation within the previous 2 calendar months
  - Instrument flight training on IFR Cross-Country procedures including:
    - 1 Long distance cross-country flight;
      - Must be at least 250 nautical miles
      - One leg must have a straight line distance of 100 nautical miles or more
      - Must have executed 3 different types of approaches
      - Must have executed these at 3 different airports
  - Optional maximum of 20 hours utilizing simulators

## Required Aircraft Equipment:

- Required aircraft documents valid, current and available on board the aircraft (ARROW)
  - Airworthiness Certificate
  - Registration Certificate (unexpired)
  - Radio Station license and restricted telephone operator's permit if international ops.
  - Owners Manual, POH, or AFM as applicable to the aircraft
  - Weight and balance: current and applicable
- Original aircraft maintenance logs available on test day (to be used for airworthiness determination)
- Annual, 100-Hour, or progressive inspections current as required by operation
- AD compliance list available, current, showing one-time and reoccurring AD compliance
- Aircraft must be acceptable per *FAR 61.45*: US registry, appropriate category and class (ASEL), standard or special airworthiness certificate.
- Transponder, pitot-static certs, ELT
- VOR tests last 30 days/ GPS database current
- Owner's Manual, POH or FAA approved AFM accessible in the aircraft



## Personal Equipment:

- Appropriate Aeronautical charts for the area and cross-country planning
- Appropriate Chart Supplement for the area and cross-country planning
- E6B or equivalent
- Plotter or equivalent
- Flight log
- Flight plan form
- Airmans Information Manual (AIM)
- Current 14 CFR
- Current Airman Certification Standards (ACS)

## IACRA:

- 8710-1 application via IACRA properly completed *61.39(a)(7)*
  - Signed by applicant
  - Signed by recommending instructor
  - Name on application must be consistent with name on ID
  - Flight hours entries must meet minimum hours per regulations

Note: For re-test appointments, a separate 8710-1 & additional CFI logbook endorsement per *FAR 61.49* is required

This syllabus is designed to be used as a basic template for training.  
All flight tasks and ground lessons are laid out in the order of a standard training profile.  
Some students may need elements to be adjusted or changed to fit their personal learning style.  
Not only is changing or deviating from this syllabus allowed, it's encouraged!

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## Beyond Learning

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[www.GroundSchool.com](http://www.GroundSchool.com)