

INSTRUMENT PILOT FLIGHT TRAINING COURSE SYLLABUS

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INSTRUMENT PILOT - AIRPLANE TRAINING COURSE SYLLABUS

COURSE OBJECTIVES

The student will obtain the aeronautical skill and experience necessary to meet the requirements for an Instrument Pilot Certificate for Airplane.

COURSE COMPLETION STANDARDS

The student must demonstrate through flight tests and school records that the aeronautical knowledge, skill, and experience requirements necessary to obtain an Instrument Airplane Pilot Certificate are accomplished.

TRAINING COURSE
INSTRUMENT PILOT FLIGHT – AIRPLANE
COURSE INTRODUCTION

The Instrument Pilot Flight Training Course is the syllabus portion of ATD Flight Systems 14 CFR part 141 Approved Instrument Pilot Flight Certification Course. This syllabus provides a logical, structured sequence that maximizes learning and meets 14 CFR part 141 training time requirements. Training times must be increased slightly to meet 14 CFR part 61 requirements for students training under those rules.

COURSE CONCEPT

The Instrument Pilot Flight Training Course utilizes the building-block theory of learning, which recognizes that each item taught must be presented on the basis of previously learned knowledge and skills.

For optimum effectiveness, the viewing of the associated DVDs should be completed prior to the respective flight lessons. If a considerable length of time has elapsed between flight lessons, the instructor may wish to conduct a short review of essential material.

COURSE ELEMENTS

The course includes the latest FAA pilot certification requirements and a maximum of student-oriented instruction. The syllabus and support materials not only provide necessary information, but also guide the student through the course in a logical manner.

STUDENT VIDEO PREPARATION

The ATD Flight Systems Instrument Pilot Flight Course is based on Sporty's Complete Flight Training course for the Instrument Pilot on DVD. It is important that the student view all seven volumes in the Instrument Pilot course. For each lesson, there is required study of specific DVD sections and this should be accomplished as part of a self-study program before each lesson. Additional topics may also be assigned by the instructor. To maximize the learning benefit of the DVDs, the student should also review the required sections after completion of the lesson. This is particularly true of any subject areas where the student encountered difficulty.

PREFLIGHT ORIENTATION

Prior to each dual lesson, the instructor must provide the student with a thorough overview of the subject matter to be covered during the lesson. The instructor should select a quiet, private place to brief the student and explain the lesson material. It is important that the instructor define unfamiliar terms and explain the maneuvers and objectives of each lesson.

AIRPLANE PRACTICE

Airplane practice must be conducted so that the student obtains the maximum benefit from each flight. Each flight, where applicable, should begin with a review of previously practiced maneuvers, as deemed necessary by the instructor, before any new maneuvers are introduced.

POSTFLIGHT EVALUATION

The postflight evaluation is equally as important as the preflight orientation. During each postflight session, the student must be thoroughly debriefed. Noticeable advancement should be apparent and recommendations should be made for improvement, where appropriate. This action is a valuable instructional technique because it increases retention. The instructor must also discuss the elements of the next lesson. This prepares the student for the video assignment and will enhance the student's understanding.

LESSONTIMES

Lesson times are specified as a guide to meeting the 14 CFR part 141 training requirements for the Private Pilot. Under the building block concept, however, the student must achieve a specific level of proficiency before starting the next lesson. Lessons may be combined or repeated as needed based on the progress made by the student. It is imperative that the instructor and student periodically review the student's overall progress and determine that the training requirements are consistently being met.

STUDENT STAGE CHECKS AND END OF COURSE CHECK

Stage checks measure the student's accomplishments during each stage of training. This procedure provides close supervision of training and another opinion on the student's progress. An examination of the building-block theory of learning will show that it is extremely important for progress and proficiency to be satisfactory before the student enters a new stage of training. Therefore, the next stage should not begin until the student successfully completes the current stage. Failure to follow this progression may defeat the purpose of the stage check and lead to overall course breakdown.

STUDENT INFORMATION

COURSE ENROLLMENT

To be enrolled in this course:

- You must hold a current private pilot certificate.
- Be concurrently enrolled, have completed ATD Flight Systems Instrument Pilot Ground course or passed your Instrument Pilot Knowledge test with an 80% or higher.

REQUIREMENTS FOR GRADUATION

To obtain a graduation certificate for the 14 CFR Part 141 Instrument Pilot Flight Course, the applicant must:

- A. Be at least 17 years of age;
- B. Hold a Private Pilot certificate;
- C. Be able to read, speak, write, and understand the English language;
- D. Complete all flight training requirements; and
- E. Hold a valid FAA medical certificate

GRADING INSTRUCTIONAL LESSONS

Evaluation is an essential part of the teaching process. The student must be apprised of his or her progress. All instructional flights must be graded in accordance with the following criteria.

Each pilot operation or task will be evaluated at the completion of each instructional lesson.

- | | |
|--------------------------------------|--|
| 1 = EXCELLENT | The student demonstrates knowledge or skills with no procedural or mechanical errors and the flight instructor does not provide any assistance |
| 2 = ABOVE
AVERAGE | The student demonstrates knowledge or skills that exceed standards. Occasional procedural or mechanical errors are quickly recognized and corrected. |
| 3 = AVERAGE | The student consistently demonstrates knowledge and skills that meet standards with timely recognition of procedural or mechanical errors. |
| 4 = BELOW
AVERAGE | The student demonstrates knowledge and skills with difficulty, is slow in recognizing and correcting procedural or mechanical errors. |
| 5 = BELOW
ACCEPTABLE
STANDARDS | The student does not demonstrate adequate knowledge or skills, is unable to recognize and correct procedural or mechanical errors. |
| I = INCOMPLETE | The student has not completed the pilot operation listed |

Each instructional lesson will be assigned an overall grade based on the following criteria.

S = SATISFACTORY	The content of the lesson has been completed to the standards outlined in the individual lesson Completion Standards.
U = UNSATISFACTORY	Indicates that all or part of the lesson content was not completed to the standards outlined in the individual lesson Completion Standards. One or more pilot operations graded as a "5" will require an overall grade of unsatisfactory.
I = INCOMPLETE	Indicates the content of the lesson was not completed, but the pilot operations covered were satisfactory. Pilot operations not completed must be indicated with an "I".

GRADING NOTES

All completed solo lessons should be graded as Student Practice.

The student did not complete all the pilot operations listed on the lesson sheet.

1. When an instructional lesson is graded unsatisfactory, only those pilot operations graded as "5" must be repeated to standards during the next lesson.
2. When any lesson is graded incomplete, the pilot operations not performed must be completed prior to attempting the pilot operations for the next lesson.

TSA ALIEN FLIGHT STUDENT PROGRAM RECORDS

The TSA mandated Alien Flight Student Program (AFSP) has a number of compliance and record keeping requirements. Refer to the TSA website for details. The inside front cover of this book has a place to record that you have completed the requirements. That line is there to serve as a reminder to complete the TSA mandates but does not meet the documentation requirements.

Per the TSA, an instructor may elect to use an endorsement in the Student's *and* the Instructor's logbooks to document confirmation of a Student's U.S. Citizenship (not allowed for aliens). The Instructor's copy of the record must be kept for at least 5 years. The recommended text of the endorsement is as follows:

"I certify that [insert student's name] has presented me a [insert type of document presented, such as a U.S. birth certificate or U.S. passport, and the relevant control or sequential number on the document, if any] establishing that [he or she] is a U.S. citizen or national in accordance with 49 CFR 1552.3(h). [Insert date and instructor's signature and CFI number.]"

For details or clarification, refer to the TSA's website.

Course Time Allocation Table

STAGE NO.	LESSON	FLIGHT TIME					GROUND TIME
		DUAL	INST	FTD	DUAL X_C	TOTAL	DISCUSSION
I	1	1.0	1.0	1.0		1.0	0.5
I	2	1.0	1.0	1.0		1.0	0.5
I	3	1.0	1.0	1.0		1.0	0.5
I	4	1.0	1.0	1.0		1.0	0.5
I	5	1.0	1.0	1.0		1.0	0.5
I	6	1.5	1.4			1.5	0.5
I	7	1.5	1.4			1.5	0.5
I	8	1.0	1.0	1.0		1.0	0.5
I	9	1.0	1.0	1.0		1.0	0.5
I	10	1.5	1.4			1.5	0.5
I	11	1.5	1.4			1.5	0.5
I	12	1.5	1.4			1.5	0.5
STG I CHECK	13	1.5	1.4			1.5	1.0
STG I TOTALS		16.0	15.4	7.0		16.0	7.0
II	14	1.0	1.0	1.0		1.0	0.5
II	15	1.0	1.0	1.0		1.0	0.5
II	16	1.0	1.0	1.0		1.0	0.5
II	17	1.0	1.0	1.0		1.0	0.5
II	18	1.5	1.5	1.5		1.5	0.5
II	19	1.5	1.5	1.5		1.5	0.5
II	20	1.5	1.4			1.5	0.5
II	21	1.5	1.4			1.5	0.5
STG II CHECK	22	1.5	1.4			1.5	1.0
STG II TOTALS		11.5	11.2	7.0		11.5	5.0
III	23	1.5	1.4			1.5	0.5
III	24	2.0	1.8		2.0	2.0	1.0
III	25	3.0	2.8		3.0	3.0	0.5
III	26	1.5	1.4			1.5	0.5
STG III CHECK	27	1.5	1.4			1.5	1.0
STG III TOTALS		9.5	8.8		5.0	9.5	3.5
EOC CHECK	28	1.5	1.4			1.5	1.5
COURSE TOTALS		38.5	36.8	14.0	5.0	38.5	17.0
FAA 141 REQUIREMENTS		35.0	35.0		3.0	35.0	

Note: The individual lesson times shown on this table are for Instructor/student guidance only. They are not mandatory for each lesson.

STAGE I**STAGE OBJECTIVE:**

During this stage, the student will learn precise airplane attitude control solely by reference to the airplane instruments.

STAGE COMPLETION STANDARDS:

At the completion of this stage, the student will demonstrate precise airplane attitude control by instrument reference only. This will include the use of full panel and partial panel instrument reference. Tolerances for all maneuvers will be in accordance with the Instrument Practical Test Standard.

STAGE II**STAGE OBJECTIVE:**

During this stage, the student will learn and refine basic radio navigation procedures, including the intercepting and tracking of courses through the use of VORs, Localizers, NDBs and other navigation systems. The student will also learn to perform instrument approaches.

STAGE COMPLETION STANDARDS:

At the completion of this stage, the student will demonstrate positional awareness and ability to accurately navigate the aircraft by reference to navigation systems. At the completion of this stage the student will be able to perform local instrument flight operations to the current Instrument Practical Test Standard.

STAGE III

STAGE OBJECTIVE:

During this stage the student will plan and perform IFR cross-country flight while refining the basic IFR skills required to operate in the instrument environment.

STAGE COMPLETION STANDARDS:

The student will demonstrate positional awareness and ability to accurately navigate the aircraft by reference to navigation systems. At the completion of this stage the student will be able to perform instrument flight operations to the current FAA Instrument Pilot Practical Test Standards.

Stage 1

Flight Lesson 1

Dual – Local

(Airplane or AATD)

Lesson Objectives

- Become familiar with the instrument training airplane.
- Briefly review normal preflight, takeoff, and landing procedures.
- Practice attitude instrument flight with emphasis on precise aircraft control solely by instrument reference.

Review

Grade

Grade

Grade

Preflight Briefing

- Aircraft Certificates and Documents
- Aircraft Logbooks
- Aircraft Performance
- Aircraft Weight and Balance
- Operation of Systems

Normal Procedures

- Cockpit Management
- Use of Checklists
- Engine Starting
- Collision Avoidance Procedures
- Normal and Crosswind Taxiing
- Normal Takeoffs and Landings
- Crosswind Takeoffs and Landings
- Radio Communications
- ATC Light Signals
- Aeronautical Decision Making

Introduction

Full Panel Instrument

- Straight and level Flight
- Standard Rate Turns
- Constant Airspeed Climbs
- Climbing Turns
- Constant Airspeed Descents
- Descending Turn
- Power-Off Stalls
- Power-On Stalls
- Maneuvering During Slow Flight
- Recovery from Unusual Flight Attitudes
- Operations in Turbulence

Lesson Grade / Date

Flight Time / Briefing Time

CFI / Student Initials

Postflight Briefing / Preview of Next Lesson

Completion Standards

- Takeoffs and landings will be conducted safely and at least at the private pilot proficiency level.
- During the flight and student will maintain altitude ± 200 ft, heading $\pm 15^\circ$ and airspeed ± 15 knots

REQUIRED STUDY

- Vol. 1: Segments 1-5, 9

Notes:

Stage 1

Flight Lesson 5

Dual – Local

(Airplane or AATD)

Lesson Objectives

- Continue to review full and partial panel instrument flight.
- Become more familiar with related systems and equipment malfunctions.
- Introduce additional full/partial panel instrument maneuvers and procedures.

Review

Systems and Equipment Malfunctions

- Gyroscopic Failure – Attitude and/or Heading Indicator
- Loss of Communications Equipment

Grade

Grade

Grade

Full and Partial Panel Instrument

- Straight and level Flight
- Standard Rate Turns
- Constant Airspeed Climbs
- Constant Airspeed Descents
- Maneuvering During Slow Flight
- Steep Turns
- Power-Off Stalls
- Power-On Stalls

Introduction

Full Panel Instrument

- Constant Rate Climbs
- Constant Rate Decent
- Timed Turns to Magnetic Compass Heading

Partial Panel Instrument

- Constant Rate Climbs
- Constant Rate Decent
- Timed Turns to Magnetic Compass Heading
- Magnetic Compass Turns
- Recovery from Unusual Flight Attitudes

Lesson Grade / Date

Flight Time / Briefing Time

CFI / Student Initials

Postflight Briefing / Preview of Next Lesson

Completion Standards

- Using partial panel instrument reference, the student will maintain altitude ± 200 ft, heading $\pm 15^\circ$ and airspeed ± 15 knots, and desired climb and descent ± 150 feet per minute.
- Demonstrate a basic understanding of IFR systems operation and recognize systems and equipment malfunctions.

REQUIRED STUDY

- Vol. 1: Segments 9-11

NOTES:

Stage 1

Flight Lesson 12

Dual – Local

Lesson Objectives

- Increase proficiency in basic attitude instrument flight procedures.
- Introduce VOR and GPS orientation/tracking procedures using partial panel.

Review

Partial Panel

- Timed Turns to Magnetic Compass Headings
- Magnetic Compass Turns
- Straight-and Level Turns
- Standard-Rate Turns
- Climbs
- Descents
- Power-Off Stalls
- Power-On Stalls
- Recovery From Unusual Flight Attitudes

Grade

Grade

Grade

Full Panel

- Straight-and Level Flight
- Standard-Rate Turns
- Climbs
- Descents
- Power-Off Stalls
- Power-On Stalls
- Recovery From Unusual Flight Attitudes
- Steep Turns

Introduce

Partial Panel

- Maneuvering During Slow Flight
- VOR Orientation
- VOR Tracking
- GPS Orientation
- GPS Tracking

Lesson Grade / Date

Flight Time / Briefing Time

CFI / Student Initials

_____ _____
 _____ _____
 _____ _____

_____ _____
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_____ _____
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 _____ _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- The student will demonstrate accurate VOR and GPS orientation in full panel and partial panel situations.
- Using partial panel and full panel instrument reference, the student will maintain ± 100 feet, heading $\pm 10^\circ$, airspeed ± 15 knots, and desired descent and climb rate ± 100 feet
- The student will perform correct recovery techniques from unusual attitudes using full and partial panel instrument reference.
- The student will demonstrate the correct recovery techniques from stalls using positive control techniques with a minimum loss if altitude.

NOTES:

Stage 1

Flight Lesson 13

Dual – Local/Stage I Check

Lesson Objectives

- The chief instructor, assistant chief, or a designated check instructor will evaluate the student’s proficiency in attitude instrument flight and navigation to ensure the student is prepared for more complex instrument flying procedures.

Review

Partial Panel

- Recovery From Unusual Flight Attitudes
- Timed Turns to Magnetic Compass Headings
- Magnetic Compass Turns
- Power-Off Stalls
- Power-On Stalls

Grade

Grade

Grade

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Full Panel

- Straight-and Level Flight
- Constant Rate Climbs
- Constant Airspeed Climbs
- Constant Rate Descents
- Constant Airspeed Descents
- Standard-Rate Turns
- Recovery From Unusual Flight Attitudes

_____	_____	_____
_____	_____	_____
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_____	_____	_____
_____	_____	_____
_____	_____	_____

Instrument Navigation

- VOR Orientation
- VOR Tracking
- GPS Orientation
- GPS Tracking
- GPS Orientation
- Time, Speed, and Distance Calculations
- Localizer Tracking

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Lesson Grade / Date	_____	_____	_____	_____	_____	_____
Flight Time / Briefing Time	_____	_____	_____	_____	_____	_____
CFI / Student Initials	_____	_____	_____	_____	_____	_____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- The student will demonstrate accurate VOR and GPS orientation and tracking at all times.
- The student will perform correct recovery techniques from unusual attitudes using full and partial panel instrument reference.
- The student will use recovery techniques from stalls using positive control techniques with a minimum loss of altitude.
- Using full panel and partial panel instrument reference, the student will maintain altitude ± 150 feet, heading $\pm 10^\circ$, airspeed ± 15 knots, and desired descent and climb rate ± 100 feet per minute.

REQUIRED STUDY

- Vol. 1: Review as needed
- Vol. 3: Review as needed

NOTES:

Stage 2

Flight Lesson 17

Dual – Local

(Airplane or AATD)

Lesson Objectives

- Review previously learned holding pattern procedures and systems/equipment malfunctions.
- Familiarize the student with nonprecision instrument approach procedures and missed approach planning

Review

- Holding procedures
- Standard Localizer holding
- Systems and Equipment Malfunction

Grade

Grade

Grade

Introduction

- VOR Approaches
- Localizer Approaches (front course)
- Approach Procedures to Straight in Landing Minimums
- Missed Approach Procedures

Lesson Grade / Date

Flight Time / Briefing Time

CFI / Student Initials

Postflight Briefing / Preview of Next Lesson

Completion Standards

- Demonstrate proficiency in the review maneuvers and procedures.
- The student should explain and use the information displayed on the approach charts.
- The student should execute several initial and intermediate approach segments to arrive at the final approach fix.
- The student should complete the final approach and let down to the missed approach fix.
- The student should demonstrate the missed approach procedure as appropriate to the published chart used.
- Maintain altitude ± 200 feet, heading $\pm 15^\circ$, airspeed ± 15 knots, and course deviation less than $\frac{3}{4}$ scale deflection.

REQUIRED STUDY

- Vol. 3: Segments 9-14
- Vol. 4: Segment 1-8
- Vol. 7: Segment 12

NOTES:

Stage 2

Flight Lesson 22

Dual – Local/Stage II Check

Lesson Objectives

- The chief instructor, assistant chief, or a designated check instructor will evaluate the students proficiency in the proper execution of holding patterns and instrument approach procedures.

Review

- GPS Holding
- VOR Holding
- VOR Time and Distance
- Intercepting and Tracking DME Arcs
- VOR Approaches
- ILS Approaches
- GPS Approaches
- Approach procedures to Circling Landing Minimums
- Approach procedures to Straight-In Landing Minimums
- Partial Panel Nonprecision Instrument Approach procedures
- Missed Approach Procedures

Grade

Grade

Grade

_____	_____	_____	_____
_____	_____	_____	_____
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_____	_____	_____	_____

Lesson Grade / Date

Flight Time / Briefing Time

CFI / Student Initials

Postflight Briefing / Preview of Next Lesson

Completion Standards

- The student should demonstrate instrument pilot proficiency, as outlined in the current FAA Instrument Rating Practical Test Standard, in each of the listed procedures.

REQUIRED STUDY

- Vol. 3: Review as needed
- Vol. 4: Segments 11-14
- Vol. 5: Segments 11-14

NOTES:

Stage 3

Flight Lesson 23

Dual – Local

Lesson Objectives

- The student should be introduced to IFR Cross-Country Procedures with an emphasis on planning and departure procedures.
- The student should develop an understanding of the appropriate emergency procedures for enroute IFR operations.

Review

	Grade	Grade	Grade
- ILS Approaches	_____	_____	_____
- GPS Approaches	_____	_____	_____
- VOR Approaches	_____	_____	_____
- Loss of Communications	_____	_____	_____
- Loss of Gyro (Altitude and/or Heading)	_____	_____	_____

Introduce

- Weather Info. Related to IFR Cross-Country Flight	_____	_____	_____
- Aircraft Performance, Limitations, and Systems Related to IFR Cross-country	_____	_____	_____
- Filing an IFR Flight Plan	_____	_____	_____
- Departure Procedures and Clearance	_____	_____	_____
- Air Traffic Control Clearance	_____	_____	_____
- Clearance copying	_____	_____	_____
- Clearance Read back	_____	_____	_____
- Use Of SIDs	_____	_____	_____
- Use of Radar	_____	_____	_____
- Voice Communications	_____	_____	_____
- Enroute procedures and Clearances	_____	_____	_____
- Arrival Procedures and Clearances	_____	_____	_____
- Canceling an IFR Flight Plan	_____	_____	_____

Simulated Emergency

- Radio Failure	_____	_____	_____
- Instrument Failure	_____	_____	_____
- Systems Failure	_____	_____	_____
- Equipment Failure	_____	_____	_____
- Icing	_____	_____	_____
- Turbulence	_____	_____	_____
- Low Fuel Supply	_____	_____	_____
- Engine Failure	_____	_____	_____

Lesson Grade / Date	_____	_____	_____	_____
Flight Time / Briefing Time	_____	_____	_____	_____
CFI / Student Initials	_____	_____	_____	_____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- The student will exhibit knowledge of the procedures involved in cross-country planning, filing IFR flight plans, and obtaining IFR clearances.
- The students will demonstrate a basic understanding of the various simulated emergency procedures
- Maintain altitude ± 100 feet, heading $\pm 10^\circ$, airspeed ± 10 knots, and course deviation less than $\frac{3}{4}$ scale deflection.

REQUIRED STUDY

- Vol. 4: Review as needed
- Vol. 6: Segments 1-5

NOTES:

Stage 3

Flight Lesson 27 Dual – Local/Stage III Check

Lesson Objectives

- The chief instructor, assistant chief, or a designated check instructor will evaluate the student’s IFR Cross-country skills. This is the Final Stage in preparation for the Instrument Rating Practical Test.

Review	Grade	Grade	Grade
IFR Cross-Country Flight Planning			
- Filing an IFR Flight Plan	_____	_____	_____
- IFR Preflight Inspection	_____	_____	_____
- IFR Takeoff Preparations	_____	_____	_____
- IFR Departure Procedures and Clearances	_____	_____	_____
- Cockpit management	_____	_____	_____
- Voice Communications	_____	_____	_____
 Arrival Procedures and Clearances			
- ILS Approach	_____	_____	_____
- VOR Approach	_____	_____	_____
- NDB Approach	_____	_____	_____
- Missed Approach Procedure	_____	_____	_____
- Landing from Straight-in or Circling Approach Procedures	_____	_____	_____
- Aeronautical Decision Making and Judgment	_____	_____	_____
 Simulated Emergency Procedures			
- Loss of Communications	_____	_____	_____
- Radio Failure	_____	_____	_____
- Instrument Failure	_____	_____	_____
- Equipment Failure	_____	_____	_____
- Engine Failure	_____	_____	_____
- Systems Failure	_____	_____	_____
 Lesson Grade / Date	_____	_____	_____
Flight Time / Briefing Time	_____	_____	_____
CFI / Student Initials	_____	_____	_____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- The student should demonstrate complete understanding of IFR Cross-country procedures.
- The student will perform all IFR and pertinent simulated emergency procedures at the instrument pilot proficiency level, as outlined in the current FAA instrument rating practical test standards.

REQUIRED STUDY

- Vol. All: Review as needed

NOTES:

Stage 3

Flight Lesson 28 Dual – End of Course Check

Lesson Objectives

- The chief instructor, assistant chief, or a designated check instructor will evaluate the student’s IFR skills. This is the End of Course check in preparation for the Instrument Rating Practical Test.

Review

	Grade	Grade	Grade
- Cross-Country Planning	_____	_____	_____
- Instrument Cockpit Check	_____	_____	_____
- Air Traffic Control Clearances	_____	_____	_____
- Emergency Procedures	_____	_____	_____

Full Panel

- Straight and level Flight	_____	_____	_____
- Constant Rate Climbs	_____	_____	_____
- Constant Airspeed Climbs	_____	_____	_____
- Constant Rate Descents	_____	_____	_____
- Constant Airspeed Descents	_____	_____	_____
- Standard Rate Turns	_____	_____	_____
- Recovery from Unusual Attitudes	_____	_____	_____

Partial Panel

- Recovery from Unusual Attitudes	_____	_____	_____
- Timed turns to Magnetic Compass Headings	_____	_____	_____
- Magnetic Compass Turns	_____	_____	_____
- Power-off Stalls	_____	_____	_____
- Power-on Stalls	_____	_____	_____
- Straight and Level Flight	_____	_____	_____
- Standard Rate Turns	_____	_____	_____
- Constant Rate Climbs and Descents	_____	_____	_____
- Constant Airspeed Climbs and Descents	_____	_____	_____
- Recovery from Unusual Attitudes	_____	_____	_____
- Nonprecision Instrument Approaches	_____	_____	_____
- Time and Distance Calculations	_____	_____	_____
- Intercepting and Tracking DME Arcs	_____	_____	_____

Instrument Navigation

- VOR Orientation	_____	_____	_____
- VOR Tracking	_____	_____	_____
- GPS Orientation	_____	_____	_____
- GPS Tracking	_____	_____	_____
- Time, Speed, and Distance Calculations	_____	_____	_____
- Localizer Tracking	_____	_____	_____

VOR

- Orientation	_____	_____	_____
- Radial Interception	_____	_____	_____
- Tracking	_____	_____	_____
- VOR Time and Distance	_____	_____	_____
- VOR Approaches	_____	_____	_____
- VOR Holding	_____	_____	_____

GPS

- Orientation	_____	_____	_____
- Radial Interception	_____	_____	_____
- Tracking	_____	_____	_____
- GPS Approaches	_____	_____	_____

- GPS Holding _____

Other Instrument Procedures

- ILS Approaches _____

- Approach Procedures to Circling
Landing Minimums _____

- Approach Procedures to Straight-In
Landing Minimums _____

- Missed Approach Procedures _____

- Partial Panel Nonprecision Instrument Approaches _____

- Aircraft Flight instruments _____

- Navigation Instruments _____

- Timed Turns to Magnetic Compass Heading _____

- Magnetic Compass Turns _____

- NDB, VOR/DME, and RNAV Approaches _____

Lesson Grade / Date _____

Flight Time / Briefing Time _____

CFI / Student Initials _____

Postflight Briefing / Preview of Next Lesson

Completion Standards

- The student will perform all IFR and pertinent simulated emergency procedures at the instrument pilot proficiency level, as outlined in the current FAA instrument rating practical test standards.

REQUIRED STUDY

- Vol. All: Review as needed

NOTES:



