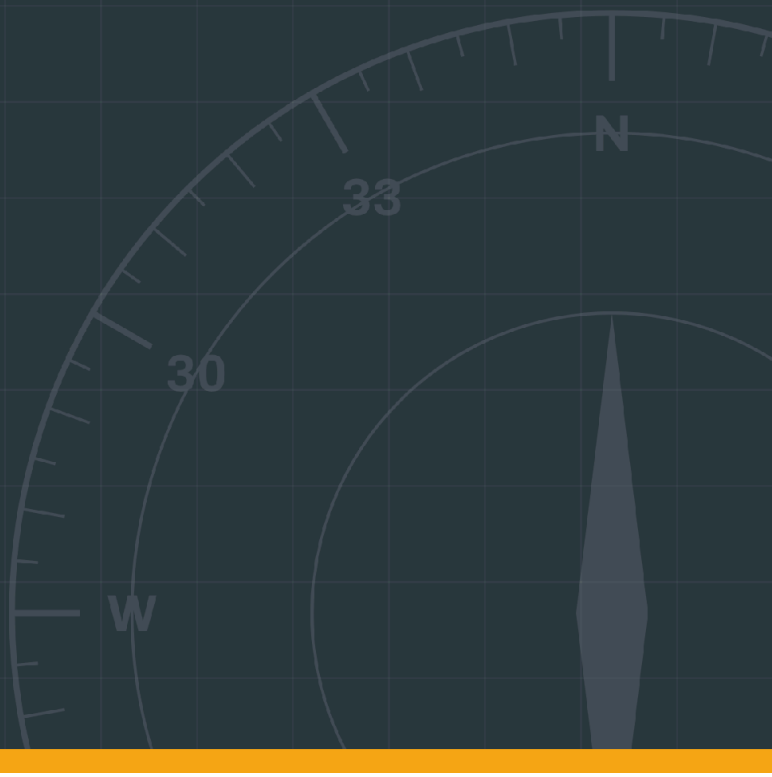
DZ AVIATION

FLIGHT TRAINING · ORLANDO APOPKA (X04)

TRAINING COURSE OUTLINE · 14 CFR PART 61

Flight Instructor

Airplane Single-Engine and Instrument
Ground and flight training syllabus



Orlando Apopka Airport (X04) · Apopka, Florida

Flight instructor – airplane single-engine (CFI) and instrument – airplane (CFII): ground and flight training under 14 CFR Part 61.

CHIEF INSTRUCTOR Davide Zambiasi, Gold Seal CFI/CFII, airplane and helicopter

AIRCRAFT Cessna 172 and Piper PA-28-181 Archer; spin-approved airplane for spin training; Piper PA-28R Arrow (complex)

REVISION Revision 1 · November 8, 2026

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Log of Revisions

Number	Date	Nature of the Changes	Signature
1	11/08/2026	Original issue: flight instructor (CFI and CFII) syllabus adapted for DZ Aviation (Part 61, X04)	DZ
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Part 61 Minimum Requirements and Training Plan

DZ Aviation trains under 14 CFR Part 61. This syllabus has two courses: Course 1 prepares a commercial pilot for the flight instructor certificate with an airplane single-engine rating (CFI), and Course 2 adds the instrument instructor rating (CFII). Part 61 sets eligibility, knowledge, endorsement, and spin training requirements for both, but no minimum hours of training; the student is endorsed for each practical test when he or she consistently meets its standards.

Minimum requirements at a glance

Requirement (14 CFR 61.183 unless noted)	CFI – Airplane SEL	CFII – Airplane	This syllabus	Lessons
Age and English proficiency (61.183(a), (b))	18	18	Checked at enrollment	–
Commercial or ATP certificate with an airplane single-engine rating and an instrument rating (61.183(c))	Required	Required	Enrollment prerequisite	–
Pilot in command time in the category and class (61.183(j))	15.0	15.0	Enrollment prerequisite	–
Ground training endorsement on the fundamentals of instructing (61.183(d), 61.185(a)(1))	Required	Not required for a current CFI	8.5 h 1-on-1 + 16 h self-study	GL 1–8
Fundamentals of instructing knowledge test (FOI) (61.183(e))	Required unless exempt	Not required for a current CFI	Stage and EOC exams	GL 8, 19
Aeronautical knowledge training (61.185(a)(2), (3)) and knowledge test (61.183(f))	FIA test	FII test	1-on-1: CFI 12.5 h, CFII 7.5 h (plus self-study)	GL 9–19, 20–25
Flight training on the 61.187(b) areas of operation, with endorsement (61.183(g))	Required	Required	CFI 23.5 h, CFII 10.5 h dual	FL 1–15, 16–21
Stall awareness, spin entry, spins, and spin recovery training in an airplane certificated for spins, with endorsement (61.183(i))	Required	–	1 flight	FL 9
Minimum hours of flight training	None specified	None specified	CFI 23.5 h, CFII 10.5 h	All
Practical test (61.183(h))	Flight Instructor – Airplane ACS	Flight Instructor – Instrument PTS	End-of-course checks	FL 15, 21

Applicants who already hold a flight or ground instructor certificate, a state, county, city, or municipal teaching certificate for grade 7 or higher, or a teaching position at an accredited college or university do not take the FOI

knowledge test (61.183(e)). DZ Aviation still reviews Stage 1 with them, because the Fundamentals of Instructing are tested on the practical test.

How we train to the standards

A commercial pilot who already flies to commercial standards from the left seat can finish the course in the condensed plan below. To make that possible, we work as follows:

- Fly at least 2 times per week, and present at least one ground lesson to the instructor every week. Teaching skill grows with repetition, not with reading.
- Pass the FOI and FIA knowledge tests before Flight Stage 2 begins, and the FII test before Flight Stage 3 begins.
- Build a full set of lesson plans for every Private Pilot and Commercial Pilot ACS task during Ground Stage 2, starting from the DZ Aviation Private Pilot and Commercial Pilot syllabi. These lesson plans are used on every flight and on the practical test.
- Arrive prepared: brief each flight lesson to the instructor as if the instructor were the student, including common errors and how to correct them.
- Combine lessons once their completion standards are met: right-seat lessons can be merged for pilots who adapt quickly, and teaching lessons can be merged when the student explains and demonstrates each maneuver to standard.

The condensed plan is built as follows:

Phase (lessons)	1-on-1 ground	Dual flight	Notes
CFI ground (GL 1–19)	21.0		FOI lessons are reviewed, not taught in full, for applicants exempt under 61.183(e)
CFI right-seat proficiency (FL 1–6, condensed)		4.5	For pilots already flying to commercial standards
CFI teaching flights (FL 7–15, condensed)		9.0	Includes spin training (FL 9) and the end-of-course check
CFII ground (GL 20–25)	7.5		
CFII teaching flights (FL 16–21, condensed)		6.0	Includes the end-of-course check
Total	**28.5**	**19.5**	Part 61 sets no minimum flight training hours for either rating

What most students actually need

Few students finish at the condensed plan, and this syllabus does not assume they will. The planned hours for each course are shown below. Most of the ground time is self-study: of the 86.5 planned ground hours, 50.0 are the online

course and reading the student does on his or her own, only 28.5 are one-on-one with the instructor, and 8.0 are written exams.

	Self-study (on your own)	1-on-1 with instructor	Written exams	Dual flight
Course 1 – CFI (Stages 1–2)	38.0	21.0	6.0	23.5
Course 2 – CFII (Stage 3)	12.0	7.5	2.0	10.5
Course total	**50.0**	**28.5**	**8.0**	**34.0**

A student who already holds a flight instructor certificate takes Course 2 only: 10.5 hours of dual and 7.5 hours with the instructor on the ground. Any lesson is repeated until its completion standards are met. The extra time goes mostly to flying and teaching from the right seat at the same time, to the commercial maneuvers flown to standard while talking, and to presenting ground lessons clearly. The student is endorsed for each practical test only when he or she consistently meets the current Flight Instructor – Airplane ACS or Flight Instructor – Instrument PTS.

Order of the courses

Course 1 (CFI) comes first. Course 2 (CFII) may begin after the CFI practical test. The CFII ground lessons may be studied alongside Course 1 flight lessons when that suits the student's schedule.

Course Outline

1. DZ Aviation provides flight and ground instruction at Orlando Apopka Airport (X04), Apopka, Florida, under 14 CFR Part 61. DZ Aviation does not hold an FAA air agency certificate.

DZ Aviation

Orlando Apopka Airport (X04), Apopka, FL · www.flydz.co · david@flydz.co

2. Base of Operations: Orlando Apopka Airport (X04)
    a. Airport: X04 is a public-use, non-towered airport about 4 miles northwest of Apopka and is the base for all training in this course. Runway 15/33 is 3,284 x 60 ft asphalt, with pilot-controlled low-intensity edge lights on the CTAF (123.05) and a rotating beacon. Runway 15 uses right traffic and has a 241 ft displaced threshold. X04 has two published instrument approaches, RNAV (GPS)-A and RNAV (GPS)-B, both with circling minimums only. Its busy pattern, powered paraglider activity, and position under the Orlando Class B airspace give flight instructor applicants the same environment they will teach in.
    b. Ground Instruction Facilities: Briefings, debriefings, practice ground lessons, and one-on-one ground lessons are conducted at X04 in a briefing area suitable for instruction, with a whiteboard, models, and internet access for weather briefings and flight planning.
    c. Ground Trainer: No flight simulation training device is used in this course; all flight training is conducted in the airplane.
3. Training Aids: Ground training uses an online self-study flight instructor course (Sporty's, King Schools, Gleim, or equivalent), FAA handbooks and advisory circulars, the aircraft POHs and checklists, current charts, ForeFlight, and the student's own lesson plans and instructional aids.
4. Aircraft:
    a. Cessna 172 and Piper PA-28-181 Archer airplanes operated by Countrywide Flyers, a flying club based at X04, are used for flight training in this course. Each is maintained and inspected as required by 14 CFR Part 91 and equipped for day and night VFR flight; airplanes used in Course 2 are equipped for IFR flight as specified in 14 CFR 91.205(d).
    b. Spin training (Flight Lesson 9) is conducted only in an airplane certificated for intentional spins: a Cessna 172 operated in the utility category where its POH approves intentional spins, or another spin-approved airplane arranged by DZ Aviation. The Piper Archer and Piper Arrow are not approved for intentional spins.

c. The Piper PA-28R Arrow may be used for practice instruction in complex airplane operations at the chief instructor's discretion.

d. Students must be members of Countrywide Flyers and checked out in the club aircraft before training. Membership, aircraft scheduling, checkout, and insurance requirements, including any requirements for flying from the right seat, are set by the aircraft operator, not by DZ Aviation.

5. Chief Instructor:

   a. The chief instructor for the Flight Instructor course is:

      i. **Davide Zambiasi – Gold Seal CFI/CFII, airplane and helicopter**

   b. The chief instructor conducts the training in this course, administers all stage exams, stage checks, and end-of-course checks, keeps the training records, and issues all required endorsements.

6. Instructors: All training in this course is given by the chief instructor. An instructor who gives ground or flight training to an initial flight instructor applicant must meet the qualifications of 14 CFR 61.195(h), and an instructor who trains an applicant for the instrument instructor rating must hold that rating.

7. Training Records: Each lesson is logged in the student's logbook and in the DZ Aviation training record, with a written debrief that states which completion standards were met and what comes next. The record also lists each practice ground lesson the student presented and the instructor's critique. Endorsements follow the current edition of FAA Advisory Circular 61-65.

8. Scheduling: Students should schedule at least two flight lessons and one ground presentation per week. Morning lessons are recommended from late spring through early fall to avoid afternoon thunderstorms. When more than three weeks pass between flight lessons, the next lesson normally begins with a review of the previous lesson's elements.

Curriculum Overview

The DZ Aviation Flight Instructor course (the course) is designed to meet the aeronautical knowledge and flight proficiency requirements of 14 CFR 61.185 and 61.187 for a flight instructor certificate with an airplane category and single-engine class rating (Course 1) and an instrument – airplane rating (Course 2). DZ Aviation trains under 14 CFR Part 61; the course is organized in stages, with stage exams, stage checks, and written completion standards, because this makes progress measurable and keeps training on track.

The syllabus has separate ground and flight segments that are taught concurrently. The ground lessons are divided into three stages. In Stage 1, the student studies the Fundamentals of Instructing: how people learn, communication, the teaching process, assessment, lesson planning, and the instructor's responsibilities. In Stage 2, the student learns to teach the knowledge and skills of the private and commercial pilot, presents practice ground lessons, and studies the regulations, endorsements, and spin training. In Stage 3, the student learns to teach instrument flying.

The flight lessons are separated into three stages. In Stage 1, the student learns to fly every private and commercial maneuver to standard from the right seat. In Stage 2, the student teaches those maneuvers to the instructor, who plays the role of a student, completes spin training, and prepares for the CFI practical test. In Stage 3, the student teaches attitude instrument flying, navigation, holding, and approaches, and prepares for the CFII practical test.

The course coordinates ground and flight lessons in a step-by-step progression of introduction and practice. The syllabus is not a rigid document: it is a summary of the course of training, and the instructor adapts it to each student's needs and to the local training environment.

Course elements

The course has a ground portion and a flight portion, which are normally conducted together. The ground portion covers the aeronautical knowledge areas of 14 CFR 61.185(a); the flight portion covers the areas of operation of 14 CFR 61.187(b) and the spin training of 14 CFR 61.183(i). A student who completes a course meets the Part 61 training requirements for that rating.

Course enrollment

A student may enroll at any time and may begin at the start of any stage, subject to the evaluation described under Credit for previous training. To begin flight training, the student must be at least 18 years old, hold a commercial or airline transport pilot certificate with an airplane single-engine land rating and an instrument rating, have logged at least 15 hours as pilot in command in single-engine airplanes, and hold at least a third-class medical certificate or fly under BasicMed when acting as pilot in command. A medical certificate is not required to give flight instruction

when the student is pilot in command and the instructor is not required crew, but DZ Aviation recommends holding at least a third-class medical certificate. To begin Course 2, the student must hold a flight instructor certificate with an airplane rating or be concurrently completing Course 1. There is no prerequisite for the ground lessons.

Credit for previous training

Ground and flight training previously received from an authorized instructor and properly logged counts toward the requirements of 14 CFR 61.185 and 61.187, whether it was received under Part 61 or Part 141. A student who already holds a flight instructor certificate with another rating, or a ground instructor certificate, receives credit for the Stage 1 Fundamentals of Instructing lessons after an oral review. Before placing a student who has prior training, the chief instructor reviews the student's logbook and endorsements and conducts an evaluation flight and oral review.

Ground training

14 CFR 61.185(a) requires the applicant to receive and log ground training from an authorized instructor on the fundamentals of instructing and on the aeronautical knowledge areas of the rating sought. This course combines an online self-study flight instructor course with one-on-one sessions in which the student presents lessons to the instructor and is critiqued. The ground lessons in each stage should be completed before or alongside the flight lessons in the same stage.

Using the ground lessons

Each ground lesson lists its objectives, the recommended self-study and one-on-one time, required materials, lesson elements, and completion standards. From Ground Lesson 11 on, the student presents part of each lesson to the instructor using his or her own lesson plan, and the instructor critiques the presentation.

Textbooks and required materials

Before each ground lesson, the student completes the assigned self-study module and reads the related sections of the references below. The following materials are required for the course:

- Online flight instructor ground school course (Sporty's, King Schools, Gleim, or equivalent)
- Aviation Instructor's Handbook (FAA-H-8083-9)
- Airplane Flying Handbook (FAA-H-8083-3)
- Pilot's Handbook of Aeronautical Knowledge (FAA-H-8083-25)
- Risk Management Handbook (FAA-H-8083-2)
- Instrument Flying Handbook (FAA-H-8083-15) and Instrument Procedures Handbook (FAA-H-8083-16), for Course 2

- AC 61-65, Certification: Pilots and Flight and Ground Instructors (current edition)
- AC 61-67, Stall and Spin Awareness Training (current edition)
- AC 61-98, Currency Requirements and Guidance for the Flight Review and Instrument Proficiency Check (current edition)
- FAR/AIM (current edition)
- Pilot's Operating Handbooks and checklists for the aircraft flown
- Flight Instructor for Airplane Category Airman Certification Standards (FAA-S-ACS-25, current edition)
- Flight Instructor – Instrument Practical Test Standards (FAA-S-8081-9, current edition), for Course 2
- Private Pilot, Commercial Pilot, and Instrument Rating – Airplane ACS (current editions)
- Airman Knowledge Testing Supplement for Flight Instructor (FAA-CT-8080-5) and for Instrument Rating (FAA-CT-8080-3), current editions
- DZ Aviation Private Pilot, Instrument Rating, and Commercial Pilot syllabi
- ForeFlight or another electronic flight bag with current data

Stage written exams and end-of-course written exams

Each ground stage ends with a written exam on the material unique to that stage. The minimum passing score is 80%, and the instructor reviews every incorrect answer with the student before the next stage begins. Ground Lesson 19 is the end-of-course exam for Course 1, a review for the FAA Fundamentals of Instructing (FOI) and Flight Instructor – Airplane (FIA) knowledge tests, and Ground Lesson 25 is the end-of-course exam for Course 2, a review for the Flight Instructor – Instrument Airplane (FII) knowledge test. The logged ground training and passed exams are the basis for the knowledge test endorsements required by 14 CFR 61.183(d) and 61.35(a)(1).

Stage checks and end-of-course checks

Each flight stage ends with a check conducted by the chief instructor: Flight Lesson 6 (right-seat proficiency), Flight Lesson 15 (CFI end-of-course check), and Flight Lesson 21 (CFII end-of-course check). The end-of-course checks are full mock practical tests, including the oral and a ground lesson presented by the student, and are the basis for the practical test endorsements required by 14 CFR 61.183(g) and 61.39(a)(6).

Preflight orientation

Before each flight, the student briefs the lesson to the instructor as if the instructor were the student: its objectives, the maneuvers to be flown, common errors, and the completion standards. The instructor then adds what the student missed. After every lesson, the instructor gives the student a written debrief stating what met standards, what needs more work, and the plan for the next lesson.

Deviations

This syllabus has been written with a building block progression of learning. The succession of the lessons is designed to optimize the learning process. However, even though the lessons are arranged in a logical sequence, the syllabus should not be considered a rigid document. It should be considered as an abstract or summary of the course of training. Therefore the instruction must provide flexibility to adapt to individual student needs and/or the local training environment. With the approval of the chief instructor, lessons may be rearranged to better suit the needs of the student as long as the overall progression of the building blocks is not disturbed. Spin training (Flight Lesson 9) may be flown at any point in Stage 2 when a spin-approved airplane is available.

Course completion certificate

Students who complete all ground and flight lessons, stage exams, and stage checks of a course receive a DZ Aviation course completion certificate after Flight Lesson 15 (Course 1) or Flight Lesson 21 (Course 2). Because DZ Aviation trains under Part 61, this is not a Part 141 graduation certificate: eligibility for each practical test comes from the student's qualifications, passed knowledge tests, and the required instructor endorsements (14 CFR 61.183 and 61.39).

Course completion

To complete a course, the student must complete its ground and flight lessons in the order given (unless changed by the chief instructor as described under Deviations), meet every lesson and stage completion standard, and meet the requirements of 14 CFR 61.183, 61.185, and 61.187 for the rating sought.

Structure and Hours Plan

Ground course

	Self-study (on your own)	1-on-1 with instructor	Stage and EOC exams	Total ground time
Stage 1 (CFI)	16.0	8.5	2.0	26.5
Stage 2 (CFI)	22.0	12.5	4.0	38.5
Stage 3 (CFII)	12.0	7.5	2.0	21.5
Part 61 minimum	**NS**	**NS**	**NS**	**NS**
Course total	**50.0**	**28.5**	**8.0**	**86.5**

Self-study is the online ground school and assigned reading, done on the student's own time; it is listed so the student can plan, and the hours are a recommendation. Only the 1-on-1 and exam time is scheduled with the instructor. NS = none specified. Part 61 sets no minimum ground hours: the student logs ground training on the 61.185(a) areas and receives the knowledge test endorsements required by 14 CFR 61.183(d) and 61.35.

Ground course overview

Flight Instructor Course	Lesson number	Self-study (on your own)	1-on-1 with instructor	Exam time	Total ground time	Lesson description
	1	3.0	1.5		4.5	Becoming a flight instructor & the learning process
	2	2.0	1.0		3.0	Human behavior & effective communication
	3	3.0	1.5		4.5	The teaching process & teaching methods
	4	2.0	1.0		3.0	Assessment & critique
	5	2.0	1.5		3.5	Planning instruction: syllabi & lesson plans
	6	2.0	1.0		3.0	Instructor responsibilities, professionalism & risk management
	7	2.0	1.0		3.0	Techniques of flight instruction & the right seat
	8			2.0	2.0	Stage 1 written exam (FOI)
Stage 1	**Total**	**16.0**	**8.5**	**2.0**	**26.5**	
	9	3.0	1.5		4.5	Regulations for flight instructors
	10	3.0	1.5		4.5	Endorsements, records & the student pilot
	11	3.0	1.5		4.5	Teaching private pilot knowledge
	12	3.0	1.5		4.5	Teaching private pilot maneuvers, takeoffs & landings
	13	2.0	1.5		3.5	Teaching commercial maneuvers & complex airplanes
	14	2.0	1.5		3.5	Teaching emergency procedures & airplane systems
	15	2.0	1.5		3.5	Teaching ADM, SRM & flight safety

Flight Instructor Course	Lesson number	Self-study (on your own)	1-on-1 with instructor	Exam time	Total ground time	Lesson description
	16	2.0	1.0		3.0	Stall & spin awareness, spin training & upset prevention
	17	2.0	1.0		3.0	Flight reviews, checkouts & specialized instruction
	18			2.0	2.0	Stage 2 written exam
	19			2.0	2.0	End-of-course exam (FOI & FIA)
Stage 2	**Total**	**22.0**	**12.5**	**4.0**	**38.5**	
	20	2.0	1.5		3.5	Teaching instruments, attitude flying & partial panel
	21	2.0	1.5		3.5	Regulations, endorsements & IPCs for instrument instructors
	22	3.0	1.5		4.5	Teaching navigation, holding & IFR charts
	23	3.0	1.5		4.5	Teaching instrument approaches
	24	2.0	1.5		3.5	Teaching IFR weather, emergencies & decision making
	25			2.0	2.0	End-of-course exam (FII)
Stage 3	**Total**	**12.0**	**7.5**	**2.0**	**21.5**	
Course total (CFI + CFII)		**50.0**	**28.5**	**8.0**	**86.5**	

Flight lessons structure

Flight Instructor course	Lesson	Pre/post brief	Dual	Cross-country	Night	Instrument	Total flight
	1	1.0	1.5				1.5
	2	1.0	1.5				1.5
	3	1.0	1.5				1.5
	4	1.0	1.5				1.5
	5	1.0	1.5			0.5	1.5
	6	1.5	1.5				1.5
Stage 1 (CFI)	**Total**	**6.5**	**9.0**	**0.0**	**0.0**	**0.5**	**9.0**
	7	1.0	1.5				1.5
	8	1.0	1.5				1.5
	9	1.0	1.5				1.5
	10	1.0	1.5				1.5
	11	1.0	1.5				1.5
	12	1.0	2.0	2.0			2.0
	13	1.0	1.5		1.5		1.5
	14	1.0	1.5				1.5

Flight Instructor course	Lesson	Pre/post brief	Dual	Cross-country	Night	Instrument	Total flight
	15	1.5	2.0				2.0
Stage 2 (CFI)	**Total**	**9.5**	**14.5**	**2.0**	**1.5**	**0.0**	**14.5**
	16	1.0	1.5			1.3	1.5
	17	1.0	1.5			1.3	1.5
	18	1.0	2.0			1.7	2.0
	19	1.0	2.0			1.7	2.0
	20	1.0	1.5			1.3	1.5
	21	1.5	2.0			1.7	2.0
Stage 3 (CFII)	**Total**	**6.5**	**10.5**	**0.0**	**0.0**	**9.0**	**10.5**
Course total (CFI + CFII)		**22.5**	**34.0**	**2.0**	**1.5**	**9.5**	**34.0**
Part 61 Minimums			**NS**				**NS**

The CFI course (Stages 1–2) is planned at 23.5 hours of dual and the CFII course (Stage 3) at 10.5 hours; the 34.0-hour total applies only to a student taking both. All flight time in this course is dual instruction. In Stages 2 and 3 the student flies from the right seat and teaches; the instructor plays the role of a student and, at times, makes the common errors the student must recognize and correct. The times are a guide: lessons are repeated until their completion standards are met.

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Stage 1 – Ground Lessons

OBJECTIVES:

- During this stage, the student will learn the Fundamentals of Instructing: how people learn, human behavior and communication, the teaching process and teaching methods, assessment, lesson planning, and the responsibilities and professionalism of a flight instructor.

COMPLETION STANDARDS:

- This stage is complete when the student has taken the Stage 1 written exam (FOI) with a minimum passing score of 80%, and the instructor has reviewed each incorrect response to ensure complete understanding before the student progresses to the next stage.

EXPECTATIONS:

- The student is expected to complete the assigned self-study before each session, bring notes and questions, and begin building the lesson plan binder that will be used for the rest of the course and on the practical test.

Ground Lesson 1: Becoming a flight instructor & the learning process

OBJECTIVES:

- Become familiar with the Flight Instructor syllabus, DZ Aviation and aircraft operator procedures, and the path to the CFI and CFII practical tests.
- Understand how people learn, the domains and levels of learning, and the laws of learning, and how they apply to flight training.

SCHEDULE: 3.0 h self-study + 1.5 h 1-on-1

MATERIAL REQUIRED:

- Aviation Instructor's Handbook
- FAR/AIM
- Flight Instructor ACS

LESSON ELEMENTS:

Introduction to the course

- Flight Instructor Syllabus, stages, and completion standards
- Eligibility for the flight instructor certificate (61.183) and the knowledge tests (FOI, FIA, FII)
- Flight Instructor for Airplane Category ACS: structure, areas of operation, and the role of the FOI on the practical test
- Expectations for preparation, punctuality, and professionalism
- Club aircraft scheduling and right-seat checkout requirements

The learning process

- Learning theory: behaviorism, cognitive theory, and constructivism
- Perceptions, insight, and motivation
- Domains of learning: cognitive, affective, and psychomotor
- Levels of learning: rote, understanding, application, and correlation
- Learning physical skills: practice, plateaus, and evaluation
- Memory, forgetting, retention, and transfer of learning
- Habit formation and the danger of incorrect first impressions

COMPLETION STANDARDS:

- The student explains the levels of learning and the domains of learning with flight training examples, and describes how to promote retention and positive transfer of learning.

Ground Lesson 2: Human behavior & effective communication

OBJECTIVES:

- Understand the human needs and defense mechanisms that affect a student's behavior, and how an instructor recognizes and responds to them.
- Learn the elements of effective communication and the barriers that interfere with it.

SCHEDULE: **2.0 h self-study + 1.0 h 1-on-1**

MATERIAL REQUIRED:

- Aviation Instructor's Handbook

LESSON ELEMENTS:

Human behavior

- Control of human behavior and human needs (Maslow's hierarchy)
- Defense mechanisms: repression, denial, compensation, projection, rationalization, reaction formation, fantasy, and displacement
- The instructor as a practical psychologist
- Anxiety, stress, and abnormal reactions to stress
- Student pilot discouragement, fatigue, apathy, and impatience
- Adult learners and different learning styles

Effective communication

- Basic elements: source, symbols, and receiver
- Barriers to effective communication: lack of common experience, confusion between symbol and object, overuse of abstractions, and interference
- Listening, questioning, and instructional communication
- Instructional aids and their use

COMPLETION STANDARDS:

- The student identifies the defense mechanisms and signs of stress in typical student scenarios and explains an appropriate instructor response to each.
- The student explains the barriers to effective communication and how to overcome them in the airplane and on the ground.

Ground Lesson 3: The teaching process & teaching methods

OBJECTIVES:

- Learn the four steps of the teaching process and the teaching methods used in flight and ground instruction.
- Present a short practice ground lesson using the lecture and guided discussion methods.

SCHEDULE: 3.0 h self-study + 1.5 h 1-on-1

MATERIAL REQUIRED:

- Aviation Instructor's Handbook

LESSON ELEMENTS:

The teaching process

- Preparation, presentation, application, and assessment
- Organizing material: introduction (attention, motivation, overview), development, and conclusion
- Development patterns: past to present, simple to complex, known to unknown, most frequently used to least

Teaching methods

- Lecture method: types, use, and advantages and disadvantages
- Guided discussion method and the use of questions
- Demonstration-performance method
- Cooperative or group learning, e-learning, and computer-assisted learning
- Scenario-based training and learner-centered grading
- Problem-based learning and the use of higher-order thinking skills

COMPLETION STANDARDS:

- The student explains each step of the teaching process and selects an appropriate teaching method for a given ground or flight topic.
- The student presents a 10-minute practice lesson with a clear introduction, development, and conclusion.

Ground Lesson 4: Assessment & critique

OBJECTIVES:

- Learn the purpose and characteristics of effective assessment, the types of assessment, and how to construct written questions and conduct oral assessment.
- Learn to give a critique that helps the student improve.

SCHEDULE: 2.0 h self-study + 1.0 h 1-on-1

MATERIAL REQUIRED:

- Aviation Instructor's Handbook

LESSON ELEMENTS:

Assessment

- Purpose of assessment and characteristics of an effective assessment: objective, flexible, acceptable, comprehensive, constructive, organized, thoughtful, and specific
- Traditional and authentic assessment
- Learner-centered grading and collaborative assessment
- Oral assessment: characteristics of effective questions and how to answer student questions
- Written tests: reliability, validity, usability, objectivity, comprehensiveness, and discrimination
- Constructing multiple-choice, matching, and true-false questions

Critique

- Purpose and characteristics of an effective critique
- Methods: instructor/student critique, student-led, small group, individual student, self-critique, and written critique
- Ground rules for critiquing

COMPLETION STANDARDS:

- The student explains the characteristics of an effective assessment and conducts a collaborative assessment and critique of a practice flight scenario.

Ground Lesson 5: Planning instruction: syllabi & lesson plans

OBJECTIVES:

- Learn how a course of training is planned, from the training objectives and blocks of learning to the syllabus and lesson plan.
- Prepare the first lesson plans for the lesson plan binder.

SCHEDULE: 2.0 h self-study + 1.5 h 1-on-1

MATERIAL REQUIRED:

- Aviation Instructor's Handbook
- DZ Aviation Private Pilot Syllabus

LESSON ELEMENTS:

Planning instructional activity

- Course of training, training objectives, and standards
- Blocks of learning and the building block concept
- Training syllabus: format, content, and how to use it
- Performance-based objectives: description of the skill, conditions, and criteria
- Decision-based objectives and scenario-based training

Lesson plans

- Purpose, characteristics, and format of a lesson plan
- Objective, elements, schedule, equipment, instructor and student actions, and completion standards
- Adapting a lesson plan to the individual student
- Using the DZ Aviation syllabi as the framework for lesson plans

COMPLETION STANDARDS:

- The student writes one ground and one flight lesson plan that the instructor finds complete, with performance-based objectives and measurable completion standards.

Ground Lesson 6: Instructor responsibilities, professionalism & risk management

OBJECTIVES:

- Understand the responsibilities of a flight instructor to the student, the public, and the FAA, and the characteristics of a professional instructor.
- Learn how an instructor teaches and practices risk management and aeronautical decision making.

SCHEDULE: 2.0 h self-study + 1.0 h 1-on-1

MATERIAL REQUIRED:

- Aviation Instructor's Handbook
- Risk Management Handbook

LESSON ELEMENTS:

Instructor responsibilities and professionalism

- Helping students learn, providing adequate instruction, and standards of performance
- Emphasizing the positive and minimizing student frustration
- Flight instructor responsibilities: physiological obstacles, ensuring student skill, and evaluation of student ability
- Professionalism: sincerity, acceptance of the student, personal appearance and habits, demeanor, safety practices, and accident prevention
- Proper language, self-improvement, and continuing education
- Sexual harassment and appropriate conduct with students

Teaching risk management

- Hazards, risk, and risk management
- Single-pilot resource management and aeronautical decision making models
- Personal minimums checklists and the PAVE and IMSAFE checklists
- Assessing the student's ADM and teaching it through scenarios

COMPLETION STANDARDS:

- The student explains the responsibilities of a flight instructor and describes how to teach and evaluate risk management during a scenario-based flight lesson.

Ground Lesson 7: Techniques of flight instruction & the right seat

OBJECTIVES:

- Learn the techniques of flight instruction, including the demonstration-performance method in the airplane, positive exchange of flight controls, and the use of distractions.
- Prepare for flying the airplane from the right seat.

SCHEDULE: 2.0 h self-study + 1.0 h 1-on-1

MATERIAL REQUIRED:

- Aviation Instructor's Handbook
- Airplane Flying Handbook
- POH

LESSON ELEMENTS:

Techniques of flight instruction

- Obstacles to learning during flight instruction: unfair treatment, impatience, worry, illness, fatigue, apathy, and anxiety
- Demonstration-performance in flight: explanation, demonstration, student performance with instructor supervision, and evaluation
- Positive exchange of flight controls
- Use of distractions
- Integrated flight instruction
- Assessment of piloting ability and the post-flight critique

The right seat

- Right-seat flying: sight picture, control forces, and hand changes
- Instructor workload: flying, teaching, communicating, and watching for traffic at the same time
- Instructor intervention: when and how to take the controls
- Seat positions and instructor access to controls, switches, and fuel selector in the Cessna 172 and Piper Archer

COMPLETION STANDARDS:

- The student explains the demonstration-performance method and the positive exchange of flight controls, and describes the differences he or she expects from the right seat.

Ground Lesson 8: Stage exam (FOI)

OBJECTIVES:

- Demonstrate comprehension of the Fundamentals of Instructing presented in Stage 1.

SCHEDULE: 2.0 h

LESSON ELEMENTS:

Stage 1 exam (FOI)

- The learning process
- Human behavior and effective communication
- The teaching process and teaching methods
- Assessment and critique
- Planning instructional activity
- Instructor responsibilities and professionalism
- Techniques of flight instruction
- Risk management

COMPLETION STANDARDS:

- The lesson and stage are complete when the student has completed the Stage 1 exam with a minimum score of 80%, and the instructor has reviewed each incorrect response to ensure complete understanding before progressing to the next stage.

Stage 2 – Ground Lessons

OBJECTIVES:

- During this stage, the student will learn the regulations, endorsements, and records that govern flight instructors, and will learn to teach the knowledge areas and flight maneuvers of the private and commercial pilot, including stall and spin awareness and spin training. From Ground Lesson 11 on, the student presents part of each lesson to the instructor.

COMPLETION STANDARDS:

- This stage is complete when the student has taken the Stage 2 written exam and the end-of-course exam with a minimum passing score of 80% on each, and the instructor has reviewed each incorrect response to ensure complete understanding.

EXPECTATIONS:

- The student is expected to complete the lesson plan binder for every Private Pilot and Commercial Pilot ACS task during this stage and to present each assigned lesson as if teaching a real student.

Ground Lesson 9: Regulations for flight instructors

OBJECTIVES:

- Learn the regulations that define flight instructor privileges, limitations, records, and renewal.

SCHEDULE: 3.0 h self-study + 1.5 h 1-on-1

MATERIAL REQUIRED:

- FAR/AIM
- AC 61-65

LESSON ELEMENTS:

14 CFR Part 61, Subpart H

- Eligibility, aeronautical knowledge, and flight proficiency (61.183, 61.185, 61.187)
- Flight instructor privileges (61.193) and limitations and qualifications (61.195)
- Renewal, reinstatement, and additional ratings (61.197, 61.199, 61.191)
- Records (61.189) and change of address (61.60)
- Flight instructor certificate duration and the flight instructor refresher course

Other regulations

- Student pilot requirements and limitations (61.83 through 61.95)
- Recency, flight review, and instrument currency (61.56, 61.57)
- Additional training for complex, high-performance, tailwheel, and high-altitude airplanes (61.31)
- Medical requirements for instructors and students (61.23)
- Logging flight time, including instructor and PIC time (61.51)
- Part 91 rules for instruction: required crew, compensation, and operations in aircraft used for hire (91.109, 91.409)

COMPLETION STANDARDS:

- The student answers oral questions on instructor privileges, limitations, records, and renewal without reference, and finds any other answer in the FAR/AIM within a reasonable time.

Ground Lesson 10: Endorsements, records & the student pilot

OBJECTIVES:

- Learn to prepare every common endorsement correctly and to keep the records required of a flight instructor.
- Learn the process of training and certificating a student pilot.

SCHEDULE: 3.0 h self-study + 1.5 h 1-on-1

MATERIAL REQUIRED:

- AC 61-65
- FAR/AIM
- IACRA

LESSON ELEMENTS:

Endorsements (AC 61-65)

- Student pilot endorsements: pre-solo knowledge test, pre-solo flight training, solo, solo cross-country, repeated solo cross-country within 50 nm, and Class B airspace and airports
- Knowledge test and practical test endorsements for recreational, private, commercial, and instrument applicants
- Complex, high-performance, tailwheel, and high-altitude endorsements
- Flight review and instrument proficiency check endorsements
- Retesting after failure

Records and the student pilot

- Student pilot certificate application in IACRA, including identity verification
- Logbook entries for instruction given and the instructor's records (61.189)
- The practical test application in IACRA
- TSA flight training security requirements for U.S. citizens and foreign students (49 CFR Part 1552)

COMPLETION STANDARDS:

- The student writes the endorsements for a complete private pilot course in a sample logbook with no errors and explains the TSA requirements for a new student.

Ground Lesson 11: Teaching private pilot knowledge

OBJECTIVES:

- Learn to teach the knowledge areas of the private pilot certificate and present a ground lesson from the student's own lesson plan.

SCHEDULE: 3.0 h self-study + 1.5 h 1-on-1

MATERIAL REQUIRED:

- Pilot's Handbook of Aeronautical Knowledge
- Private Pilot ACS
- lesson plan binder

LESSON ELEMENTS:

Technical subject areas (Flight Instructor ACS, Area of Operation II)

- Aeromedical factors
- Runway incursion avoidance
- Visual scanning and collision avoidance
- Principles of flight and aerodynamics
- Airplane flight controls and operation of systems
- Performance and limitations, and weight and balance
- National airspace system and navigation
- Weather information
- Logbook entries and certificate endorsements

Practice ground lesson

- The student presents a ground lesson assigned by the instructor, chosen from the technical subject areas
- Instructor critique of the presentation

COMPLETION STANDARDS:

- The student presents a technical subject area lesson accurately and clearly, uses instructional aids effectively, and checks the "student's" understanding with effective questions.

Ground Lesson 12: Teaching private pilot maneuvers, takeoffs & landings

OBJECTIVES:

- Learn to teach the private pilot flight maneuvers, takeoffs, and landings, including how to explain each one, demonstrate it, recognize common errors, and correct them.

SCHEDULE: 3.0 h self-study + 1.5 h 1-on-1

MATERIAL REQUIRED:

- Airplane Flying Handbook
- Private Pilot ACS
- Flight Instructor ACS
- lesson plan binder

LESSON ELEMENTS:

Teaching the fundamentals

- Preflight assessment, cockpit management, engine starting, taxiing, and before-takeoff check
- Fundamentals of flight: straight-and-level flight, turns, climbs, and descents
- Slow flight, power-off and power-on stalls, and demonstration stalls (cross-control, elevator trim, and secondary stalls)
- Ground reference maneuvers: rectangular course, S-turns, and turns around a point

Teaching takeoffs, landings, and go-arounds

- Normal, crosswind, short-field, and soft-field takeoffs and landings
- Forward slip to a landing and go-around
- Common errors and how to correct them

Practice ground lesson

- The student presents a maneuver lesson assigned by the instructor, using a model and the whiteboard
- Instructor critique of the presentation

COMPLETION STANDARDS:

- The student explains each maneuver's objective, description, and ACS standards, lists its common errors, and presents a maneuver lesson that the instructor finds clear and accurate.

Ground Lesson 13: Teaching commercial maneuvers & complex airplanes

OBJECTIVES:

- Learn to teach the commercial pilot performance maneuvers and the operation of complex airplanes.

SCHEDULE: 2.0 h self-study + 1.5 h 1-on-1

MATERIAL REQUIRED:

- Airplane Flying Handbook
- Commercial Pilot ACS
- Piper Arrow POH
- lesson plan binder

LESSON ELEMENTS:

Teaching performance maneuvers

- Steep turns and steep spirals
- Chandelles and lazy eights
- Eights on pylons and pivotal altitude
- Power-off 180° accuracy approach and landing
- Common errors and how to correct them

Teaching complex airplane operations

- Constant-speed propeller and power management
- Retractable landing gear: normal and emergency extension
- Complex airplane checkout and the 61.31(e) endorsement

Practice ground lesson

- The student presents a performance maneuver lesson assigned by the instructor
- Instructor critique of the presentation

COMPLETION STANDARDS:

- The student explains each commercial maneuver to standard, including pivotal altitude and the use of power and pitch in each, and presents a lesson that the instructor finds clear and accurate.

Ground Lesson 14: Teaching emergency procedures & airplane systems

OBJECTIVES:

- Learn to teach emergency operations, systems malfunctions, and the operation of airplane systems.

SCHEDULE: 2.0 h self-study + 1.5 h 1-on-1

MATERIAL REQUIRED:

- Airplane Flying Handbook
- POH
- Flight Instructor ACS
- lesson plan binder

LESSON ELEMENTS:

Teaching emergency operations

- Emergency descent
- Emergency approach and landing (simulated)
- Systems and equipment malfunctions
- Emergency equipment and survival gear
- Simulating emergencies safely: where and how the instructor reduces power and how low the airplane may go

Teaching airplane systems

- Powerplant, fuel, electrical, and pitot-static systems
- Flight instruments and avionics in the Cessna 172 and Piper Archer
- Using the POH to teach systems

Practice ground lesson

- The student presents an emergency procedures lesson assigned by the instructor
- Instructor critique of the presentation

COMPLETION STANDARDS:

- The student explains how to teach each emergency procedure safely, including the instructor's own limits on simulated emergencies, and presents a lesson that the instructor finds clear and accurate.

Ground Lesson 15: Teaching ADM, SRM & flight safety

OBJECTIVES:

- Learn to teach aeronautical decision making, single-pilot resource management, and the risk elements of the Flight Instructor ACS.

SCHEDULE: 2.0 h self-study + 1.5 h 1-on-1

MATERIAL REQUIRED:

- Risk Management Handbook
- Flight Instructor ACS
- lesson plan binder

LESSON ELEMENTS:

Teaching ADM and SRM

- The ADM process and the hazardous attitudes and their antidotes
- Task management, situational awareness, and automation management
- Controlled flight into terrain awareness
- Teaching the student to use personal minimums and to make go/no-go decisions

Flight safety

- Collision avoidance, runway incursion avoidance, and wake turbulence
- Loss of control in flight and the role of the instructor in preventing it
- Accident causes in flight training and how instructors prevent them
- The FAA WINGS program and safety resources for students

Practice ground lesson

- The student presents an ADM scenario lesson assigned by the instructor
- Instructor critique of the presentation

COMPLETION STANDARDS:

- The student builds and presents a scenario that requires a "student" to identify hazards, assess risk, and make a sound decision, and leads the debrief that follows.

Ground Lesson 16: Stall & spin awareness, spin training & upset prevention

OBJECTIVES:

- Learn the aerodynamics of stalls and spins, the regulatory requirements for spin training, and how to teach stall and spin awareness and upset prevention.
- Prepare for spin training in Flight Lesson 9.

SCHEDULE: 2.0 h self-study + 1.0 h 1-on-1

MATERIAL REQUIRED:

- AC 61-67
- Airplane Flying Handbook
- POH of the spin-approved airplane

LESSON ELEMENTS:

Stall and spin aerodynamics

- Angle of attack, load factor, and the critical angle of attack
- Stall recognition: aerodynamic, mechanical, and stall warning cues
- Spin aerodynamics: autorotation, phases of a spin (entry, incipient, developed, and recovery), and the effect of center of gravity
- Flat spins and spiral dives: how they differ

Spin training requirements

- 61.183(i): spin training and endorsement for the flight instructor applicant
- Airplanes certificated for spins: category, weight and CG limits, and POH spin recovery procedure
- Parachute requirements (91.307) and intentional spins with students
- Spin training safety: entry altitude, recovery altitude, clear area, and loose items

Upset prevention and recovery

- Causes of upsets and loss of control in flight
- Recognition, prevention, and recovery from nose-high and nose-low unusual attitudes
- Teaching stall and spin awareness to students who will never spin an airplane

COMPLETION STANDARDS:

- The student explains the phases of a spin and the PARE recovery (or the POH procedure, if different), states the weight, CG, and altitude limits for the spin training flight, and explains the 61.183(i) requirements.

Ground Lesson 17: Flight reviews, checkouts & specialized instruction

OBJECTIVES:

- Learn to conduct a flight review, an aircraft checkout, and other specialized instruction a flight instructor commonly gives.

SCHEDULE: 2.0 h self-study + 1.0 h 1-on-1

MATERIAL REQUIRED:

- AC 61-98
- AC 61-65
- FAR/AIM

LESSON ELEMENTS:

Flight reviews and checkouts

- Flight review requirements (61.56) and planning a flight review
- Evaluating the pilot's knowledge and skill and what to do when the pilot does not meet standards
- Aircraft checkouts and club or rental checkouts
- Transition training: complex, high-performance, and technically advanced airplanes

Specialized instruction

- Night flight instruction and night currency
- Instruction for pilots returning to flying
- Teaching the private pilot cross-country flight and solo cross-country preparation
- Basic attitude instrument flying for private pilot applicants

COMPLETION STANDARDS:

- The student plans a complete flight review for a sample pilot and explains how to document a satisfactory or unsatisfactory flight review.

Ground Lesson 18: Stage exam

OBJECTIVES:

- Demonstrate comprehension of the material presented in Stage 2.

SCHEDULE: 2.0 h

LESSON ELEMENTS:

Stage 2 exam

- Flight instructor regulations, endorsements, and records
- Technical subject areas
- Private and commercial maneuvers, takeoffs, and landings
- Emergency operations and airplane systems
- Aeronautical decision making and flight safety
- Stall and spin awareness and spin training
- Flight reviews and specialized instruction

COMPLETION STANDARDS:

- The lesson is complete when the student has completed the Stage 2 exam with a minimum score of 80%, and the instructor has reviewed each incorrect response to ensure complete understanding.

Ground Lesson 19: End-of-course exam (FOI & FIA)

OBJECTIVES:

- Demonstrate readiness for the FAA Fundamentals of Instructing (FOI) and Flight Instructor – Airplane (FIA) knowledge tests.

SCHEDULE: 2.0 h

LESSON ELEMENTS:

End-of-course exam

- Fundamentals of Instructing (applicants exempt under 61.183(e) take the FIA portion only)
- All flight instructor – airplane knowledge areas, using the Airman Knowledge Testing Supplement for Flight Instructor

COMPLETION STANDARDS:

- The lesson and stage are complete when the student has completed the end-of-course exam with a minimum score of 80%, and the instructor has reviewed each incorrect response. The instructor then issues the knowledge test endorsements required by 14 CFR 61.183(d) and 61.35(a)(1).

Stage 3 – Ground Lessons

OBJECTIVES:

- During this stage, the student will learn to teach attitude instrument flying, IFR navigation and holding, instrument approaches, IFR weather, and instrument emergencies, and will learn the regulations and endorsements that apply to instrument instructors.

COMPLETION STANDARDS:

- This stage is complete when the student has taken the end-of-course exam (FII) with a minimum passing score of 80%, and the instructor has reviewed each incorrect response to ensure complete understanding.

EXPECTATIONS:

- The student is expected to complete a lesson plan for every Instrument Rating – Airplane ACS task during this stage, starting from the DZ Aviation Instrument Rating Syllabus.

Ground Lesson 20: Teaching instruments, attitude flying & partial panel

OBJECTIVES:

- Learn to teach the flight instruments and attitude instrument flying, including full panel and partial panel flight and recovery from unusual attitudes.

SCHEDULE: 2.0 h self-study + 1.5 h 1-on-1

MATERIAL REQUIRED:

- Instrument Flying Handbook
- Flight Instructor – Instrument PTS
- lesson plan binder

LESSON ELEMENTS:

Teaching the flight instruments

- Pitot-static, gyroscopic, and electronic flight instruments and their errors
- Preflight checks of the flight instruments and avionics
- Instrument failure: recognizing a failed instrument and isolating it

Teaching attitude instrument flying

- Control and performance method and primary and supporting method
- Instrument cross-check, instrument interpretation, and aircraft control
- Common cross-check errors: fixation, omission, and emphasis
- Straight-and-level flight, turns, climbs, descents, and standard-rate turns
- Partial panel flight and compass turns
- Recovery from unusual attitudes, full and partial panel
- Use of a view-limiting device and the safety pilot's duties

Practice ground lesson

- The student presents an attitude instrument flying lesson assigned by the instructor
- Instructor critique of the presentation

COMPLETION STANDARDS:

- The student explains the cross-check and the common cross-check errors and presents an attitude instrument flying lesson that the instructor finds clear and accurate.

Ground Lesson 21: Regulations, endorsements & IPCs for instrument instructors

OBJECTIVES:

- Learn the regulations, endorsements, and records that apply to instrument instruction and the instrument proficiency check.

SCHEDULE: 2.0 h self-study + 1.5 h 1-on-1

MATERIAL REQUIRED:

- FAR/AIM
- AC 61-65
- AC 61-98

LESSON ELEMENTS:

Regulations

- Instrument rating requirements (61.65), including the 40 hours of instrument time and the instrument cross-country
- Instrument currency and the instrument proficiency check (61.57(c), (d))
- Use of flight simulation training devices and aviation training devices for instrument training and currency
- Instrument instructor privileges and limitations (61.193, 61.195(c))
- IFR flight plans, clearances, and required equipment (91.169, 91.173, 91.205(d))

Endorsements and the IPC

- Instrument knowledge test and practical test endorsements
- Planning and conducting an instrument proficiency check using the Instrument Rating ACS
- IPC endorsement and logbook entry

COMPLETION STANDARDS:

- The student writes the instrument rating endorsements without error and plans a complete instrument proficiency check for a sample pilot.

Ground Lesson 22: Teaching navigation, holding & IFR charts

OBJECTIVES:

- Learn to teach IFR charts, VOR and GPS navigation, departures and arrivals, and holding procedures.

SCHEDULE: 3.0 h self-study + 1.5 h 1-on-1

MATERIAL REQUIRED:

- Instrument Procedures Handbook
- Instrument Flying Handbook
- Chart Supplement
- IFR enroute charts

LESSON ELEMENTS:

Teaching IFR navigation

- IFR enroute charts, departure procedures, and arrival procedures
- VOR, DME, and GPS navigation, including RAIM and WAAS
- Intercepting and tracking courses and DME arcs
- IFR cross-country planning, filing, and ATC clearances

Teaching holding procedures

- Holding pattern components, entries, timing, and wind correction
- Published and unpublished holds and speed limits
- Common errors in holding and how to correct them

Practice ground lesson

- The student presents a holding lesson using the whiteboard
- Instructor critique of the presentation

COMPLETION STANDARDS:

- The student presents a holding lesson in which a "student" correctly determines the entry, timing, and wind correction for three different clearances.

Ground Lesson 23: Teaching instrument approaches

OBJECTIVES:

- Learn to teach precision and nonprecision approaches, missed approaches, circling approaches, and landing from an instrument approach.

SCHEDULE: 3.0 h self-study + 1.5 h 1-on-1

MATERIAL REQUIRED:

- Instrument Procedures Handbook
- Terminal Procedures Publication
- lesson plan binder

LESSON ELEMENTS:

Teaching instrument approaches

- Approach chart briefing: plan view, profile view, minimums, and notes
- ILS and localizer approaches
- RNAV (GPS) approaches: LNAV, LNAV/VNAV, LPV, and LP minimums
- VOR approaches
- Missed approach procedures and the decision to go missed
- Circling approaches, including the X04 RNAV (GPS)-A and -B
- Landing from a straight-in or circling approach and the 91.175 requirements to descend below minimums
- Approach briefings and the stabilized approach

Practice ground lesson

- The student presents an approach briefing lesson for an approach assigned by the instructor
- Instructor critique of the presentation

COMPLETION STANDARDS:

- The student briefs any approach in the local area completely and explains how to teach it, including common errors and the 91.175 requirements.

Ground Lesson 24: Teaching IFR weather, emergencies & decision making

OBJECTIVES:

- Learn to teach IFR weather analysis, instrument emergencies, and IFR decision making.

SCHEDULE: 2.0 h self-study + 1.5 h 1-on-1

MATERIAL REQUIRED:

- Aviation Weather Handbook
- Instrument Flying Handbook
- Risk Management Handbook

LESSON ELEMENTS:

Teaching IFR weather

- IFR weather products and interpretation
- Icing, thunderstorms, and low ceilings and visibility
- Alternate requirements and fuel requirements (91.167, 91.169)

Teaching instrument emergencies and decision making

- Lost communications procedures (91.185)
- Loss of primary flight instruments or navigation equipment
- Emergency reporting and declaring an emergency
- IFR personal minimums and risk management for instrument students
- Spatial disorientation and illusions in flight

COMPLETION STANDARDS:

- The student leads an IFR go/no-go scenario for a "student" using current weather and explains how to teach lost communications procedures.

Ground Lesson 25: End-of-course exam (FII)

OBJECTIVES:

- Demonstrate readiness for the FAA Flight Instructor – Instrument Airplane (FII) knowledge test.

SCHEDULE: 2.0 h

LESSON ELEMENTS:

End-of-course exam

- All instrument instructor knowledge areas, using the Airman Knowledge Testing Supplement for Instrument Rating

COMPLETION STANDARDS:

- The lesson and stage are complete when the student has completed the end-of-course exam with a minimum score of 80%, and the instructor has reviewed each incorrect response. The instructor then issues the knowledge test endorsements required by 14 CFR 61.35(a)(1).

Stage 1 – Flight Lessons

INTRODUCTION:

Through the flight lessons, the student will obtain the skill and instructional ability necessary to meet the requirements for a flight instructor certificate with an airplane category and single-engine class rating (Stages 1 and 2) and an instrument – airplane rating (Stage 3).

COURSE COMPLETION STANDARDS:

The student must demonstrate through flight checks and show through appropriate records that he or she meets the flight proficiency requirements of 14 CFR 61.187 and the spin training requirement of 14 CFR 61.183(i) for the rating sought.

STAGE 1 OBJECTIVES:

During this stage, the student learns to fly the airplane from the right seat and to perform every private and commercial maneuver to commercial standards from that seat, while beginning to explain each maneuver aloud.

STAGE 1 COMPLETION STANDARDS:

The stage is complete when the student flies every private and commercial maneuver from the right seat to the standards of the current Commercial Pilot – Airplane ACS, explains each maneuver while flying it, and lands the airplane consistently from the right seat.

Flight Lesson 1 – Right Seat Fundamentals

Preflight Brief	Dual	Post Brief
0.8	1.5	0.2

OBJECTIVES:

- Become familiar with flying the airplane from the right seat, including the sight picture, control forces, and hand position.

LESSON ELEMENTS:

Preflight Discussion	New Elements this Flight	Review Elements this Flight
❑ Right-seat flying: sight picture, power and flap levers, and the instructor's access to controls and switches ❑ Positive exchange of flight controls ❑ Lesson plan format used for each flight lesson in this course	❑ Preflight assessment and cockpit management from the instructor's perspective ❑ Engine starting, taxiing, and before-takeoff check from the right seat ❑ Straight-and-level flight, turns, climbs, and descents from the right seat ❑ Normal takeoffs and landings from the right seat ❑ Traffic patterns	❑ Postflight procedures

COMPLETION STANDARDS:

- The student taxis, flies, and lands the airplane from the right seat safely, with the instructor's assistance on landings as needed.

Flight Lesson 2 – Slow Flight, Stalls & Ground Reference Maneuvers

Preflight Brief	Dual	Post Brief
0.8	1.5	0.2

OBJECTIVES:

- Perform slow flight, stalls, the flight instructor demonstration stalls, and ground reference maneuvers from the right seat while explaining each one.

LESSON ELEMENTS:

Preflight Discussion	New Elements this Flight	Review Elements this Flight
❑ Demonstration stalls: cross-control, elevator trim, and secondary stalls ❑ Stall recognition and recovery and the effect of load factor ❑ Ground reference maneuvers and wind correction	❑ Slow flight from the right seat ❑ Power-off and power-on stalls from the right seat ❑ Accelerated stalls ❑ Cross-control, elevator trim, and secondary stall demonstrations ❑ Rectangular course, S-turns, and turns around a point from the right seat	❑ Normal takeoffs and landings from the right seat

COMPLETION STANDARDS:

- The student flies slow flight and stalls from the right seat to commercial standards and performs each demonstration stall safely while explaining it.

Flight Lesson 3 – Performance Maneuvers

Preflight Brief	Dual	Post Brief
0.8	1.5	0.2

OBJECTIVES:

- Perform the commercial performance maneuvers from the right seat to commercial standards.

LESSON ELEMENTS:

Preflight Discussion	New Elements this Flight	Review Elements this Flight
❑ Performance maneuvers: entry, procedure, and ACS standards ❑ Pivotal altitude	❑ Steep turns and steep spirals from the right seat ❑ Chandelles and lazy eights from the right seat ❑ Eights on pylons from the right seat	❑ Slow flight and stalls ❑ Normal takeoffs and landings from the right seat

COMPLETION STANDARDS:

- The student performs each performance maneuver from the right seat within commercial standards.

Flight Lesson 4 – Takeoffs, Landings & Emergencies

Preflight Brief	Dual	Post Brief
0.8	1.5	0.2

OBJECTIVES:

- Perform every takeoff and landing and every emergency procedure from the right seat to commercial standards.

LESSON ELEMENTS:

Preflight Discussion	New Elements this Flight	Review Elements this Flight
❑ Short-field, soft-field, and crosswind techniques ❑ Simulated emergencies: safe practices and minimum altitudes	❑ Crosswind, short-field, and soft-field takeoffs and landings from the right seat ❑ Power-off 180° accuracy approach and landing from the right seat ❑ Forward slip to a landing and go-around from the right seat ❑ Emergency descent, emergency approach and landing, and systems malfunctions from the right seat	❑ Performance maneuvers ❑ Ground reference maneuvers

COMPLETION STANDARDS:

- The student performs each takeoff, landing, and emergency procedure from the right seat within commercial standards.

Flight Lesson 5 – Basic Instrument Maneuvers & Systems Malfunctions

Preflight Brief	Dual	Instrument	Post Brief
0.8	1.5	0.5	0.2

OBJECTIVES:

- Perform basic instrument maneuvers and recovery from unusual attitudes from the right seat, and review any maneuver not yet at standard.

LESSON ELEMENTS:

Preflight Discussion	New Elements this Flight	Review Elements this Flight
❑ Basic attitude instrument flying for private pilot applicants ❑ Safety pilot duties and the use of a view-limiting device	❑ Straight-and-level flight, constant airspeed climbs and descents, and turns to headings by reference to instruments ❑ Recovery from unusual flight attitudes	❑ Any private or commercial maneuver not yet at standard from the right seat ❑ Systems and equipment malfunctions

COMPLETION STANDARDS:

- The student performs the basic instrument maneuvers from the right seat to private pilot standards and recovers promptly from unusual attitudes.

Flight Lesson 6 – Stage Check – Right Seat Proficiency

Preflight Brief	Dual	Post Brief
1.2	1.5	0.3

OBJECTIVES:

- This stage check, conducted by the chief instructor, confirms that the student flies every private and commercial maneuver to commercial standards from the right seat.

LESSON ELEMENTS:

Preflight Discussion	Review Elements this Flight	Review Elements continued
❑ Oral review of the maneuvers, their objectives, and their ACS standards	❑ Normal, crosswind, short-field, and soft-field takeoffs and landings ❑ Power-off 180° accuracy approach and landing ❑ Steep turns, steep spirals, chandelles, and lazy eights ❑ Eights on pylons and ground reference maneuvers	❑ Slow flight, stalls, and demonstration stalls ❑ Emergency operations ❑ Basic instrument maneuvers

COMPLETION STANDARDS:

- The student performs each maneuver from the right seat within commercial standards while explaining it, and lands the airplane consistently from the right seat. Additional instruction is assigned if necessary.

Stage 2 – Flight Lessons

STAGE 2 OBJECTIVES:

During this stage, the student flies from the right seat and teaches each private and commercial maneuver to the instructor, who plays the role of a student. The student learns to explain, demonstrate, recognize the student's errors, correct them, and critique the student's performance. The student also completes spin training.

STAGE 2 COMPLETION STANDARDS:

The stage is complete when the student teaches every area of operation of the Flight Instructor ACS to the instructor's satisfaction, has received spin training and the 61.183(i) endorsement, and passes the CFI end-of-course check.

Flight Lesson 7 – Teaching Preflight & Fundamentals of Flight

Preflight Brief	Dual	Post Brief
0.8	1.5	0.2

OBJECTIVES:

- Teach the preflight procedures, airport operations, and fundamentals of flight to the instructor acting as a first-flight student.

LESSON ELEMENTS:

Preflight Discussion	New Elements this Flight	Review Elements this Flight
❑ The student's lesson plans for preflight procedures and fundamentals of flight ❑ Demonstration-performance in the airplane	❑ Teaching the preflight assessment, cockpit management, engine starting, taxiing, and before-takeoff check ❑ Teaching straight-and-level flight, turns, climbs, and descents ❑ Teaching traffic patterns and radio communications at X04 ❑ Recognizing and correcting the "student's" errors	❑ Postflight procedures and post-flight critique

COMPLETION STANDARDS:

- The student gives a complete first lesson from a lesson plan, uses the demonstration-performance method, and identifies and corrects the errors the instructor introduces.

Flight Lesson 8 – Teaching Slow Flight, Stalls & Ground Reference

Preflight Brief	Dual	Post Brief
0.8	1.5	0.2

OBJECTIVES:

- Teach slow flight, stalls, the demonstration stalls, and the ground reference maneuvers.

LESSON ELEMENTS:

Preflight Discussion	New Elements this Flight	Review Elements this Flight
❑ The student's lesson plans for slow flight, stalls, and ground reference maneuvers ❑ Instructor intervention when a "student" mishandles a stall	❑ Teaching slow flight and power-off and power-on stalls ❑ Teaching accelerated stalls and demonstrating cross-control, elevator trim, and secondary stalls ❑ Teaching rectangular course, S-turns, and turns around a point	❑ Teaching the fundamentals of flight

COMPLETION STANDARDS:

- The student teaches each maneuver from the right seat, demonstrates it within commercial standards while explaining it, and recognizes and safely corrects the "student's" errors.

Flight Lesson 9 – Spin Training

Preflight Brief	Dual	Post Brief
0.8	1.5	0.2

OBJECTIVES:

- Receive the stall awareness, spin entry, spin, and spin recovery training required by 14 CFR 61.183(i), in an airplane certificated for spins.

LESSON ELEMENTS:

Preflight Discussion	New Elements this Flight	Review Elements this Flight
❑ Spin aerodynamics and the POH spin recovery procedure ❑ Airplane category, weight, and CG for intentional spins ❑ Entry and recovery altitudes, practice area, and loose item check ❑ Parachute requirements (91.307)	❑ Stall awareness and stall recognition, including accelerated and cross-control stalls ❑ Incipient spin entry and recovery ❑ Spin entry, spins of up to the number of turns the POH allows, and spin recovery in both directions ❑ Recovery from spiral dives and nose-low unusual attitudes	❑ Power-off and power-on stalls

COMPLETION STANDARDS:

- The student enters and recovers from spins in both directions using the correct recovery procedure and explains each phase of the spin while flying it.
- The instructor issues the spin training endorsement required by 14 CFR 61.183(i).

Flight Lesson 10 – Teaching Performance Maneuvers

Preflight Brief	Dual	Post Brief
0.8	1.5	0.2

OBJECTIVES:

- Teach the commercial performance maneuvers.

LESSON ELEMENTS:

Preflight Discussion	New Elements this Flight	Review Elements this Flight
❑ The student's lesson plans for the performance maneuvers	❑ Teaching steep turns and steep spirals ❑ Teaching chandelles and lazy eights ❑ Teaching eights on pylons	❑ Teaching slow flight and stalls

COMPLETION STANDARDS:

- The student teaches each performance maneuver, demonstrates it within commercial standards while explaining it, and diagnoses the "student's" errors accurately.

Flight Lesson 11 – Teaching Takeoffs, Landings & Emergencies

Preflight Brief	Dual	Post Brief
0.8	1.5	0.2

OBJECTIVES:

- Teach takeoffs, landings, go-arounds, and emergency operations.

LESSON ELEMENTS:

Preflight Discussion	New Elements this Flight	Review Elements this Flight
❑ The student's lesson plans for takeoffs, landings, and emergency operations ❑ When and how the instructor takes the controls during landing practice	❑ Teaching normal, crosswind, short-field, and soft-field takeoffs and landings ❑ Teaching the forward slip to a landing, power-off 180° accuracy approach, and go-around ❑ Teaching emergency descent, emergency approach and landing, and systems malfunctions	❑ Teaching performance maneuvers

COMPLETION STANDARDS:

- The student teaches each takeoff, landing, and emergency procedure, recognizes an unsafe landing early, and intervenes safely and in time.

Flight Lesson 12 – Teaching Cross-Country

Preflight Brief	Dual	Cross-country	Post Brief
0.8	2.0	2.0	0.2

OBJECTIVES:

- Teach cross-country flight planning and navigation as for a private pilot student preparing for the first solo cross-country.

LESSON ELEMENTS:

Preflight Discussion	New Elements this Flight	Review Elements this Flight
❑ Teaching cross-country flight planning, weather, and performance ❑ Solo cross-country endorsement requirements (61.93)	❑ Teaching pilotage, dead reckoning, and GPS navigation ❑ Teaching diversion and lost procedures ❑ Teaching operations at an unfamiliar airport	❑ Teaching takeoffs and landings

COMPLETION STANDARDS:

- The student plans and teaches a complete cross-country lesson and evaluates the "student's" readiness for a solo cross-country.

Flight Lesson 13 – Teaching Night Operations

Preflight Brief	Dual	Night	Post Brief
0.8	1.5	1.5	0.2

OBJECTIVES:

- Teach night flight preparation, night takeoffs and landings, and night emergencies.

LESSON ELEMENTS:

Preflight Discussion	New Elements this Flight	Review Elements this Flight
❑ Night vision, illusions, and night preparation ❑ Night currency and the private pilot night training requirements	❑ Teaching night preflight, taxi, and airport lighting, including X04 pilot-controlled lighting ❑ Teaching night takeoffs and landings ❑ Teaching night emergencies, including electrical failure	❑ Teaching emergency operations

COMPLETION STANDARDS:

- The student teaches a complete night lesson safely and explains the night illusions and how the "student" avoids them.

Flight Lesson 14 – Final Review

Preflight Brief	Dual	Post Brief
0.8	1.5	0.2

OBJECTIVES:

- Review any area of operation that is not yet at standard and prepare for the end-of-course check.

LESSON ELEMENTS:

Preflight Discussion	Review Elements this Flight	
❑ Practice ground lesson presented by the student ❑ Practical test procedures and the application in IACRA	❑ Areas of operation assigned by the instructor ❑ Teaching while managing traffic, radios, and the airplane	

COMPLETION STANDARDS:

- The student teaches every area of operation of the Flight Instructor ACS to the standard expected at the end-of-course check.

Flight Lesson 15 – Stage Check – CFI End of Course

Preflight Brief	Dual	Post Brief
1.2	2.0	0.3

OBJECTIVES:

- This end-of-course check, conducted by the chief instructor, determines whether the student is prepared for the Flight Instructor – Airplane practical test.

LESSON ELEMENTS:

Preflight Discussion	Review Elements this Flight	Review Elements continued
❑ Fundamentals of instructing	❑ Preflight procedures and airport operations	❑ Slow flight, stalls, and demonstration stalls
❑ Technical subject areas	❑ Fundamentals of flight	❑ Basic instrument maneuvers
❑ Preflight preparation and the lesson plan binder	❑ Takeoffs, landings, and go-arounds	❑ Emergency operations
❑ A practice ground lesson presented by the student on a topic chosen by the chief instructor	❑ Performance and ground reference maneuvers	❑ Postflight procedures
❑ Endorsements and records		

COMPLETION STANDARDS:

- The student demonstrates instructional knowledge and skill that meet or exceed the current FAA Flight Instructor for Airplane Category ACS, and performs each maneuver within commercial standards while teaching it.
- The instructor confirms that the student meets the 61.183 requirements, including the 61.183(i) spin training endorsement, before issuing the practical test endorsements required by 14 CFR 61.183(g) and 61.39(a)(6).

Stage 3 – Flight Lessons

STAGE 3 OBJECTIVES:

During this stage, the student teaches attitude instrument flying, navigation, holding, and instrument approaches to the instructor, who plays the role of an instrument student, and prepares for the Flight Instructor – Instrument practical test.

STAGE 3 COMPLETION STANDARDS:

The stage is complete when the student teaches every area of operation of the Flight Instructor – Instrument PTS to the instructor's satisfaction and passes the CFII end-of-course check.

Flight Lesson 16 – Teaching Attitude Instrument Flying

Preflight Brief	Dual	Instrument	Post Brief
0.8	1.5	1.3	0.2

OBJECTIVES:

- Teach attitude instrument flying, full and partial panel, and recovery from unusual attitudes.

LESSON ELEMENTS:

Preflight Discussion	New Elements this Flight	Review Elements this Flight
❑ The student's lesson plans for attitude instrument flying ❑ Watching the "student" while keeping a lookout for traffic	❑ Teaching straight-and-level flight, climbs, descents, and standard-rate turns by reference to instruments ❑ Teaching partial panel flight and compass turns ❑ Teaching recovery from unusual attitudes, full and partial panel ❑ Recognizing cross-check errors and correcting them	❑ Basic instrument maneuvers

COMPLETION STANDARDS:

- The student teaches attitude instrument flying from the right seat, diagnoses cross-check errors accurately, and keeps a lookout throughout.

Flight Lesson 17 – Teaching Navigation & Holding

Preflight Brief	Dual	Instrument	Post Brief
0.8	1.5	1.3	0.2

OBJECTIVES:

- Teach VOR and GPS navigation, DME arcs, and holding procedures.

LESSON ELEMENTS:

Preflight Discussion	New Elements this Flight	Review Elements this Flight
❑ The student's lesson plans for navigation and holding	❑ Teaching intercepting and tracking VOR courses and GPS tracks ❑ Teaching DME arcs ❑ Teaching holding entries, timing, and wind correction	❑ Teaching attitude instrument flying

COMPLETION STANDARDS:

- The student teaches navigation and holding from the right seat and corrects the "student's" entry, timing, and tracking errors.

Flight Lesson 18 – Teaching Instrument Approaches

Preflight Brief	Dual	Instrument	Post Brief
0.8	2.0	1.7	0.2

OBJECTIVES:

- Teach precision and nonprecision approaches, missed approaches, and circling approaches.

LESSON ELEMENTS:

Preflight Discussion	New Elements this Flight	Review Elements this Flight
❑ The student's lesson plans for instrument approaches ❑ Approach briefing technique	❑ Teaching ILS or localizer approaches ❑ Teaching RNAV (GPS) approaches ❑ Teaching missed approaches ❑ Teaching circling approaches and landing from an instrument approach	❑ Teaching holding procedures

COMPLETION STANDARDS:

- The student teaches each approach from the right seat to instrument rating standards and recognizes when the "student" must go missed.

Flight Lesson 19 – Teaching the IFR System & Emergencies

Preflight Brief	Dual	Instrument	Post Brief
0.8	2.0	1.7	0.2

OBJECTIVES:

- Teach an IFR flight from clearance to approach, including instrument emergencies.

LESSON ELEMENTS:

Preflight Discussion	New Elements this Flight	Review Elements this Flight
❑ Teaching IFR flight planning and clearances ❑ Teaching lost communications procedures	❑ Teaching IFR departures, enroute operations, and arrivals with ATC ❑ Teaching loss of communications ❑ Teaching approaches with the loss of primary flight instruments ❑ Teaching the use of the autopilot and avionics without losing basic skills	❑ Teaching instrument approaches

COMPLETION STANDARDS:

- The student teaches a complete IFR flight in the ATC system and manages instrument emergencies while keeping the "student" ahead of the airplane.

Flight Lesson 20 – Final Review

Preflight Brief	Dual	Instrument	Post Brief
0.8	1.5	1.3	0.2

OBJECTIVES:

- Review any area of operation that is not yet at standard and prepare for the CFII end-of-course check.

LESSON ELEMENTS:

Preflight Discussion	Review Elements this Flight	
❑ Practice ground lesson presented by the student ❑ Practical test procedures	❑ Areas of operation assigned by the instructor	

COMPLETION STANDARDS:

- The student teaches every area of operation of the Flight Instructor – Instrument PTS to the standard expected at the end-of-course check.

Flight Lesson 21 – Stage Check – CFII End of Course

Preflight Brief	Dual	Instrument	Post Brief
1.2	2.0	1.7	0.3

OBJECTIVES:

- This end-of-course check, conducted by the chief instructor, determines whether the student is prepared for the Flight Instructor – Instrument practical test.

LESSON ELEMENTS:

Preflight Discussion	Review Elements this Flight	Review Elements continued
❑ Fundamentals of instructing (if required) ❑ Technical subject areas for instrument instructors ❑ A practice ground lesson presented by the student on a topic chosen by the chief instructor ❑ Instrument endorsements and the instrument proficiency check	❑ Preflight procedures and air traffic control clearances ❑ Flight by reference to instruments, full and partial panel ❑ Navigation systems and holding	❑ Instrument approach procedures ❑ Emergency operations ❑ Postflight procedures

COMPLETION STANDARDS:

- The student demonstrates instructional knowledge and skill that meet or exceed the current FAA Flight Instructor – Instrument PTS, and flies each maneuver to instrument rating standards while teaching it.
- The instructor issues the practical test endorsements required by 14 CFR 61.183(g) and 61.39(a)(6).