

LESSON 1

INTRODUCTORY FIGHT

Dual – ground: 1.0, flight 0.5

Objective: Introduce student to preflight inspection, flight in a light aircraft, and the four fundamentals of aircraft control

Discussion topics:

- 1) fitness for flight (I'M SAFE)
- 2) positive exchange of flight controls
- 3) required certificates and documents for pilot and aircraft
- 4) airplane logbooks and required inspections
- 5) aircraft fuel system
- 6) aircraft electrical system
- 7) location of emergency equipment
- 8) use of checklists
- 9) weather briefing basics

Introduce:

- 1) starting procedures
- 2) radio communications
- 3) taxiing
- 4) before takeoff check
- 5) normal and crosswind takeoff and climb
- 6) effect and use of primary flight controls and trim
- 7) collision avoidance procedures
- 8) parking and securing aircraft

Completion standards:

- 1) Display understanding of aircraft systems, use of checklists, preflight, and postflight procedures
- 2) Demonstrate understanding of aircraft control

NEXT LESSON: #2, Four fundamentals of flight

Suggested student homework assignments:

Read Chapter 3 of the *Airplane Flying Handbook*

http://www.faa.gov/library/manuals/aircraft/airplane_handbook/media/faa-h-8083-3a-2of7.pdf

LESSON 2

FOUR FUNDAMENTALS OF FLIGHT

Dual – ground: 0.5, flight: 1.0

Objective: Introduce student to aeronautical decision-making, takeoff, straight and level flight, turns, and landings

Discussion topics:

- 1) Aeronautical decision making
- 2) weather factors
- 3) aircraft airworthiness

Review:

- 1) engine starting
- 2) use of checklists
- 3) before takeoff check
- 4) visual scanning and collision avoidance
- 5) parking and securing aircraft

Introduce:

- 1) crosswind taxi
- 2) normal takeoff
- 3) straight and level flight to include use of trim
- 4) aircraft configuration changes
- 5) speeds associated with use of flaps
- 6) normal approach and landing

Completion standards:

- 1) smooth engine start (no excessive engaging of starter)
- 2) student can explain run-up procedures using checklist
- 3) increased proficiency with preflight procedures and ground operations

NEXT LESSON: #3, Integrated flight instruction

Suggested student homework assignments:

Read Chapter 3, Page 3 of the *Airplane Flying Handbook*

http://www.faa.gov/library/manuals/aircraft/airplane_handbook/media/faa-h-8083-3a-2of7.pdf.

LESSON 3

INTEGRATED FLIGHT INSTRUCTION

Dual – ground: 0.3, flight: 1.0

Objective: Develop student's ability to apply coordinated control inputs and introduce the relationship between attitude and aircraft instruments

Discussion topics:

- 1) collision-avoidance procedures
- 2) flight instruments and their purpose
- 3) required medical and pilot documents

Review:

- 1) Taxiing techniques
- 2) Straight and level flight
- 3) Turns
- 4) Climbs and descents
- 3) Normal approach and landing

Introduce:

- 1) crosswind takeoff
- 2) constant airspeed climb
- 3) constant airspeed descent
- 4) turns to headings
- 5) traffic pattern entry and procedure
- 6) crosswind landings

Completion standards:

- 1) Ability to taxi in varying conditions without assistance
- 2) Student understands the concept of coordinated flight and can fly the aircraft in a coordinated manner with minimal instructor assistance
- 3) Student can conduct a stabilized approach and landing with instructor's assistance

NEXT LESSON: #4, Slow flight and stall entries and recoveries

Suggested student homework assignment:

Read Chapter 3 of the *Pilot's Handbook of Aeronautical Knowledge: Aerodynamics of Flight*
http://www.aopa.org/members/files/flttrain/aeronautical_knowledge/8083-25_chap3.pdf

LESSON 4

SLOW FLIGHT AND STALL RECOVERIES

Dual – ground: 0.5, flight: 1.0

Objective: Introduce student to slow flight and stall characteristics.

Discussion topics:

- 1) fundamentals of slow flight and stalls
- 2) spin awareness

Review:

- 1) constant airspeed climb and descent
- 2) turns to headings
- 3) practice area familiarization

Introduce:

- 1) flight at various airspeeds from cruise to slow flight
- 2) maneuvering during slow flight emphasizing correct use of rudder to negate increased adverse yaw at slow airspeeds
- 3) power-off stalls and recovery
- 4) power-on stalls and recovery

Completion standards:

- 1) Demonstration of understanding of stall and recovery concept
- 2) Demonstrates understanding of slow-flight concept through flight at minimum controllable airspeed
- 3) Altitude, heading, and airspeed at or near PTS standards

NEXT LESSON: #5, Emergency procedures

Suggested student homework assignments:

- 1) Read Chapter 6, Emergency procedures, *Aeronautical Information Manual*
http://www.aopa.org/members/files/aim/chapter_6.html.
- 2) Review emergency procedures and checklists, Pilot's Operating Handbook

LESSON 5

EMERGENCY PROCEDURES

Dual – ground: 0.5, flight: 1.0

Objective: To gain an understanding of emergency operations and to increase understanding of slow flight and stall recovery

Discussion topics:

- 1) types of possible emergencies
- 2) use of all available resources in an emergency situation

Review:

- 1) human factors and symptoms
- 2) maneuvering during slow flight
- 3) stall recovery

Introduce:

- 1) systems and equipment malfunctions
- 2) emergency procedures using both memory items and use of checklists
- 3) emergency descent
- 4) emergency approach and landing

Completion standards:

- 1) Display increased proficiency with control of airplane
- 2) Perform unassisted takeoffs
- 3) Demonstrate basic understanding of emergency operations

NEXT LESSON: #6, Steep turns and ground reference maneuvers

Suggested student homework assignments:

- 1) Read Chapter 6, Ground Reference Maneuvers and Chapter 9, pages 1-2 on steep turns, *Airplane Flying Handbook* http://www.faa.gov/library/manuals/aircraft/airplane_handbook/
- 2) Read the November 2001 AOPA Flight Training article "Training Topics: Checkride" <http://www.aopa.org/members/ftmag/article.cfm?article=4187>

LESSON 6

STEEP TURNS AND GROUND REFERENCE MANEUVERS

Dual – ground: 0.5, flight: 1.0

Objective: Introduce student to performance maneuvers

Discussion topics:

- 1) steep turns
- 2) fundamentals of ground reference maneuvers
- 3) wake turbulence avoidance

Review:

- 1) maneuvering during slow flight
- 2) emergency procedures

Introduce:

- 1) steep turns
- 2) rectangular course
- 3) S-turns
- 4) turns around a point

Completion standards

- 1) Ability to maintain specific ground track during ground-reference maneuvers
- 2) Altitude, airspeed, and heading within PTS standards during straight and level flight

NEXT LESSON: #7, Maneuvers review

Suggested student homework assignment:

- 1) Review previously assigned reading, research the answers to any questions, and be prepared to discuss them during the preflight ground briefing of the review lesson.
- 2) Diagram ground reference maneuvers showing wind corrections at different positions during the maneuvers.

LESSON 7

MANEUVERS REVIEW

Dual—ground: 0.5, flight: 1.2, simulated instrument: 0.3

Objective: Review material learned in previous lessons and increase comfort level with the airplane in various flight regimes

Discussion topics:

- 1) Pilot-in-command (PIC) responsibility and authority
- 2) Elements of basic instrument maneuvers

Review:

- 1) Normal and crosswind takeoffs and landings
- 2) Stall recoveries
- 3) Steep turns
- 4) Maneuvering during slow flight
- 5) Ground reference maneuvers
- 6) Emergency procedures

Introduce:

- 1) Flight by reference to instruments

Completion standards:

- 1) Demonstrate increased proficiency during maneuvers
- 2) Altitude, airspeed, and heading within PTS standards during straight and level flight

NEXT LESSON: #8, Traffic pattern review

Suggested student homework assignments:

- 1) Read the ASF *Operations at Non-towered Airports Safety Advisor* (<http://www.aopa.org/asf/publications/sa08.pdf>) or *Operations at Towered Airports Safety Advisor* (<http://www.aopa.org/asf/publications/sa07.pdf>), as appropriate to the airport where the lesson will take place.
- 2) Review ASF Safety Hot Spot: Operations at Non-towered Airports (<http://www.aopa.org/asf/hotspot/nontowered.html>).

LESSON 8

TRAFFIC PATTERN REVIEW

Dual – ground: 0.5, flight: 1.0

Objective: Review and perfect traffic pattern operations, practice takeoffs and landings

Discussion topics:

- 1) traffic pattern operations and radio phraseology

Review:

- 1) normal and crosswind takeoff and climb
- 2) traffic pattern operations
- 3) normal and crosswind approach and landing

Introduce:

- 1) traffic pattern engine-out procedures
- 2) controlled/uncontrolled field operations

Completion standards:

- 1) Ability to perform takeoffs and landings with no instructor input
- 2) Stays within traffic pattern and maintains adequate ground track

NEXT LESSON: #9, Presolo Review

Suggested student homework assignments:

- 1) Read Federal Aviation Regulations on student pilot solo requirements.
- 2) Airport/Facilities Directory data on airport at which solo will occur.
- 3) Practice getting weather briefings and evaluating suitability of conditions.

LESSON 9

PRESOLO REVIEW

Dual – ground: 1.0, flight: 1.0, simulated instrument: 0.3

Objective: Determine that the student is ready for the first solo flight

Discussion topics:

- 1) present presolo quiz and correct to 100%
- 2) weak areas on quiz

Review:

- 1) operation of systems
- 2) preflight inspection
- 3) engine starting
- 4) radio communications
- 5) normal and crosswind taxiing
- 6) before-takeoff check
- 7) normal and crosswind takeoff
- 8) climbing and descending turns
- 9) straight-and-level flight
- 10) turns to headings
- 11) stalls and recovery
- 12) spin awareness
- 13) steep turns
- 14) ground reference maneuvers
- 15) systems and equipment malfunctions
- 16) emergency procedures
- 17) traffic patterns
- 18) forward slips to landing
- 19) go-arounds from rejected landings
- 20) normal and crosswind approach and landing
- 21) PIC responsibility and authority
- 22) flight by reference to instruments

Introduce:

- 1) flight at slow airspeeds with realistic distractions

Completion standards:

- 1) Presolo exam completed with 80%
- 2) Demonstrate readiness for solo flight in the traffic pattern
- 3) Indicates good understanding of local airport and airspace rules, as well as systems and equipment malfunctions
- 4) Demonstrate mature PIC decision-making and authority

NEXT LESSON: #10, First solo

Suggested student homework assignments: None

LESSON 10

FIRST SOLO

Dual – ground: 0.3, flight: 0.5

Solo – 0.5

Objective: Student demonstrates control of airplane without assistance of on-board instructor

Discussion topics:

- 1) student questions
- 2) endorse logbook and Student Pilot Certificate

Review:

- 1) traffic pattern communications and operations
- 2) traffic pattern emergency procedures

Introduce (all solo):

- 1) radio communications
- 2) taxiing
- 3) before-takeoff check
- 4) normal takeoffs and climbs
- 5) traffic patterns
- 6) normal approaches and landings
- 7) after-landing procedures
- 8) parking and securing

Completion standards:

- 1) Student's ability to conduct a safe solo flight in the traffic pattern. At no time will the safety of flight be in question.

NEXT LESSON: #11, Stage check

Suggested student homework assignments: None

LESSON 11

STAGE CHECK

Dual – ground: 0.3, flight: 1.5, simulated instrument: 0.3

Objective: Determine that the student can safely depart the traffic pattern, conduct solo flights in the practice area, and return to the airport and land with no instructor assistance.

Discussion topics:

- 1) boundaries of local practice area
- 2) solo dispatch criteria; limitations placed in student's logbook

Review:

- 1) airworthiness criteria
- 2) human factors checklist
- 3) preflight procedures
- 4) runway incursion avoidance
- 5) wake turbulence avoidance
- 6) collision avoidance
- 7) normal and crosswind takeoff and climb
- 8) maneuvering during slow flight
- 9) power-off stall and recovery
- 10) power-on stall and recovery
- 11) systems and equipment malfunctions
- 12) en route emergency procedures
- 13) emergency approach and landing
- 14) traffic patterns
- 15) normal and crosswind approach and landings
- 16) go-around
- 17) postflight procedures
- 18) forward slips
- 19) flight by reference to instruments

Completion standards:

- 1) Instructor determines if student is able to competently conduct solo flights in the practice area
- 2) Altitude within 150 feet, airspeed within 10 knots, heading within 15 degrees
- 3) Demonstrate ability to depart airport, find local practice area, and return to airport with no instructor assistance

NEXT LESSON: #12, Solo practice

Suggested student homework assignment:

- 1) Review POH
- 2) Research in AIM any flight operations questions that arose during solo.

LESSON 12

SOLO PRACTICE

Dual – ground: 0.5

Solo – 1.0

Objective: To review flight maneuvers and allow student to feel comfortable when soloing the airplane

Discussion topics:

- 1) dispatch procedures
- 2) weight and balance computations
- 3) performance computations
- 4) aeronautical decision making
- 5) PIC authority and responsibility

Review (solo):

- 1) normal and crosswind takeoff and climb
- 2) radio communications
- 3) traffic patterns
- 4) maneuvering during slow flight
- 5) steep turns
- 6) power-off stall and recovery
- 7) ground reference maneuvers
- 8) normal and crosswind approach and landing

Completion standards:

- 1) Successful flight to and return from practice area (otherwise, he gets lost?)
- 2) Altitude, airspeed, heading within or approaching PTS standards

NEXT LESSON: #13, Performance takeoffs and landings.

Suggested student homework assignments:

- 1) Read Chapter 5 and Chapter 8 passages on performance takeoffs and performance landings in the *Airplane Flying Handbook*
http://www.faa.gov/library/manuals/aircraft/airplane_handbook/media/aa-h-8083-3a-1of7.pdf
- 2) Review POH procedures for short and soft-field operations.
- 3) Begin becoming familiar with the task's practical test requirements in the Practical Test Standards http://download.aopa.org/epilot/2005/pts_pvta.pdf

LESSON 13

PERFORMANCE TAKEOFFS AND LANDINGS

Dual – ground: 0.5, flight: 1.0

Objective: Introduce student to varying runway conditions and develop skill during takeoff and landing

Discussion topics:

- 1) performance computation
- 2) elements related to performance takeoffs and landings

Review:

1. flight at slow airspeeds with realistic distractions
2. recognition and recovery from low-level stalls forward slips

Introduce:

- 1) short-field takeoff and climb
- 2) soft-field takeoff and climb
- 3) short-field approach and landing
- 4) soft-field approach and landing

Completion standards:

- 1) Student understanding of the need to use performance takeoffs and landings
- 2) Student demonstration of the correct procedure to be used under simulated or actual conditions

NEXT LESSON: #14, Solo practice

Suggested student homework assignments:

- 1) Read the September 1996 AOPA Pilot magazine article *Skill Sharpening: A Solo Syllabus*
<http://www.aopa.org/members/files/pilot/1996/newpi9609.html>
- 2) Read the May 10,2002 Training Tips article in the AOPA ePilot Student Newsletter: *Making the Most of Your Solo Flights*
<http://www.aopa.org/members/files/pilot/epilot/ft/2002/020510epilot.html>

LESSON 14

SOLO PRACTICE

Dual – ground: 0.2

Solo – 1.0

Objective: To increase student proficiency with solo takeoffs and landings

Discussion topics:

- 1) solo traffic pattern procedures

Review:

- 1) radio communications
- 2) taxiing
- 3) before-takeoff check
- 4) normal takeoff and climb
- 5) traffic patterns
- 6) normal approach and landing
- 7) after-landing procedures
- 8) parking and securing

Completion standards:

- 1) Use of correct takeoff techniques. Rotation speed within 5 knots
- 2) Stabilized approach to landing. Final approach speed within 5 knots
- 3) Smooth landing within 300 feet of desired touchdown location
- 4) Judgment—executes go-around if necessary

NEXT LESSON: #15, Navigation

Suggested student homework assignments:

- 1) Study Chapter 14 of the Pilot's Handbook of Aeronautical Knowledge
http://www.aopa.org/members/files/flttrain/aeronautical_knowledge/8083-25_chap14.pdf
- 2) Read the May 1997 AOPA Pilot article Navigation Necessities
<http://www.aopa.org/members/files/pilot/1997/mos9705.html>

LESSON 15

NAVIGATION

Dual – ground: 0.5, flight: 1.5, simulated instrument: 0.5

Objective: Introduction to use of aircraft's navigation systems

Discussion topics:

- 1) use of VOR system to include identification and tracking VOR signals
- 2) use of all available resources in the aircraft

Review:

- 1) performance takeoffs and landings
- 2) flight by reference to instruments

Introduce:

- 1) VOR orientation and tracking
- 2) ADF orientation and homing
- 3) GPS orientation and tracking
- 4) emergency descents using radio aids or radar vectors
- 5) use of airplane navigation systems in emergency situations

Completion standards:

- 1) Demonstrate basic understanding of use of aircraft navigation systems

NEXT LESSON: #16, Introduction to cross-country flying

Suggested student homework assignments:

- 1) Read the November 7, 2003, Training Tips article in the AOPA ePilot Student Newsletter: Checking that Checkpoint
<http://www.aopa.org/members/files/pilot/epilot/ft/2003/031107epilot.html>.
- 2) Study cruise performance and fuel consumption calculations as given in the performance charts in your Pilot's Operating Handbook.
- 3) Review airspace in Chapter 3 of the Aeronautical Information Manual.
http://www.aopa.org/members/files/aim/chapter_3.html

LESSON 16

INTRODUCTION TO CROSS-COUNTRY FLIGHT

Dual—ground: 1.0, flight: 2.0, simulated instrument: 0.5

Objective: Introduction to cross-country flying procedures to include flight planning, pilotage, and dead reckoning; diversion to an alternate airport; and lost procedures

Discussion topics:

- 1) Use of flight publications
- 2) Route selection and flight planning
- 3) Airspace rules
- 4) Weather information
- 5) Fuel requirements
- 6) Performance limitations
- 7) Navigation log
- 8) Opening and closing flight plans
- 9) Weight and balance computation
- 10) Cockpit management
- 11) Aeronautical decision making

Review:

- 1) VOR orientation and tracking
- 2) ADF orientation and homing
- 3) GPS orientation and tracking
- 4) Emergency procedures
- 5) Flight by reference to instruments

Introduce:

- 1) Setting cruise power and fuel mixture
- 2) Estimating in-flight visibility
- 3) Computing ground-speed, ETA, and fuel consumption
- 4) Obtaining in-flight weather information
- 5) Operations at unfamiliar airports
- 6) Position fix by navigation facilities
- 7) Use of Approach Control and Departure Control

Completion standards:

- 1) Demonstrate the skill to control the aircraft during a cross-country flight and make necessary corrections to ensure proper course
- 2) Arrive at ETA within 3 minutes (recalculating ground-speed based on changed winds, if necessary)



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NEXT LESSON: #17, Introduction to night flight

Suggested student homework assignments:

- 1) Read "Flying's Forgotten 5 Percent," an article on night flying from the September 2004 AOPA Flight Training available online
<http://www.aopa.org/members/ftmag/article.cfm?article=5079>
- 2) Review ASF Safety Hot Spot: Flying Night VFR
http://www.aopa.org/asf/hotspot/night_vfr.html

LESSON 17

INTRODUCTION TO NIGHT FLIGHT

Dual – ground: 1.0, flight: 1.0

Objective: Introduce the student to the basics of and preparations for flying at night.

Discussion topics:

- 1) preparation techniques for night flying
- 2) visual illusions
- 3) night scanning techniques and collision avoidance
- 4) night flying regulations
- 5) airport lighting

Introduce (night flight):

- 1) normal and crosswind takeoff and climb
- 2) power-off stalls and recovery
- 3) power-on stalls and recovery
- 4) steep turns
- 5) maneuvering during slow flight
- 6) VFR navigation
- 7) normal and crosswind approach and landing
- 8) emergency procedures

Completion standards:

- 1) Complete five takeoffs and landings at night under varying conditions (landing light off, runway lights off)
- 2) Demonstration of ability to return to airport using all available resources
- 3) Altitude within 150 feet, airspeed within 10 knots, heading within 10 degrees

NEXT LESSON: #18, Night cross-country flying

Suggested student homework assignments:

- 1) Read the January 2001 AOPA Pilot article Into the Heart of Darkness
<http://www.aopa.org/members/files/pilot/2001/ounce0101.html>.
- 2) Familiarization with the night flying requirements for private pilots in the Federal [Aviation Regulations](http://www.aopa.org/members/files/fars/far-61.html#14:2.0.1.1.2.5.1.6) <http://www.aopa.org/members/files/fars/far-61.html#14:2.0.1.1.2.5.1.6>

LESSON 18

NIGHT CROSS-COUNTRY FLIGHT

Dual: - ground: 1.0, flight: 2.0, simulated instrument: 0.5

Objective: Introduce student to basics of navigation at night, and help to prepare the student for solo cross-country flight

Discussion topics:

- 1) sectional charts
- 2) flight publications
- 3) route selection and basic navigation procedures
- 4) weather information
- 5) fuel and performance requirements
- 6) weight and balance
- 7) navigation log
- 8) FAA flight plan
- 9) cockpit management
- 10) aeronautical decision making
- 11) aeromedical factors
- 12) night VFR fuel requirements

Review:

- 1) emergency operations
- 2) lost procedures
- 3) night operations

Completion standards:

- 1) Demonstrate ability to safely perform a cross-country flight as the sole occupant of the airplane
- 2) Demonstrate complete flight planning skills
- 3) Altitude within 100 feet, airspeed within 10 knots, heading within 10 degrees

NEXT LESSON: #19, Solo cross-country

Suggested student homework assignments:

- 1) Read the AOPA Air Safety Foundation's Safety Advisor: Do the Right Thing: Decision Making for Pilots <http://www.aopa.org/asf/publications/sa24.pdf>
- 2) Read the January 27, 2006 ePilot Student Newsletter's Training Tips article "Solo Limitations." <http://www.aopa.org/members/files/pilot/epilot/ft/2006/060127epilot.html>
- 3) Practice obtaining weather briefings and making go/no-go decisions based on the information provided

LESSON 19

SOLO CROSS-COUNTRY

Dual – ground: 0.5

Solo – 2.5

Objective: Use of previously gained knowledge to complete a solo cross-country flight

Discussion topics:

- 1) solo cross-country briefing
- 2) required documents and endorsements
- 3) determining performance and weight and balance
- 4) basic VFR weather minimums
- 5) airspace rules
- 6) en route communications
- 7) ATC services
- 8) En route weather information
- 9) lost procedures
- 10) emergency operations
- 11) diversions
- 12) ATC light signals
- 13) aeronautical decision making
- 14) cockpit management

Review:

- 1) computing ground-speed, ETA, and fuel requirements
- 2) use of dead reckoning
- 3) VOR interception and tracking
- 4) use of navigation log
- 5) filing and opening and closing FAA flight plan

Completion standards:

- 1) Demonstrate accurate planning and conduct of a solo cross-country flight using the three common methods of navigation

NEXT LESSON: #20, Long solo cross-country

Suggested student homework assignments:

- 1) Read Chapter 12, Airport Operations, of the Pilot's Handbook of Aeronautical Knowledge http://www.aopa.org/members/files/fttrain/aeronautical_knowledge/8083-25_chap12.pdf.
- 2) Read the June 28, 2002 ePilot Student Newsletter's Training Tips article Unplanned Diversions <http://www.aopa.org/members/files/pilot/epilot/ft/2002/020628epilot.html>.
- 3) Review the source materials for which links are given in the article listed above.

LESSON 20

LONG-DISTANCE SOLO CROSS-COUNTRY

Dual – ground: 0.5

Solo – 3.0

Objective: Further develop solo cross-country flying skills

Discussion topics:

- 15) solo cross-country briefing
- 16) required documents and endorsements
- 17) determining performance and weight and balance
- 18) basic VFR weather minimums
- 19) airspace rules
- 20) en route communications
- 21) ATC services
- 22) En route weather information
- 23) lost procedures
- 24) emergency operations
- 25) diversions
- 26) aeronautical decision making

Review:

- 6) computing ground-speed, ETA, and fuel requirements
- 7) use of dead-reckoning
- 8) VOR interception and tracking
- 9) use of navigation log
- 10) filing and opening and closing FAA flight plan

Completion standards:

- 1) Successful flight in accordance with FAR 61.109(a)(5)(ii)

NEXT LESSON: #21, Flight test prep

Suggested student homework assignments:

- 1) Review Practical Test Standards http://www.aopa.org/members/files/flttrain/pts_pvta.pdf and be sure that maneuvers will be practiced to tolerances equal to or exceeding the requirements, and to become familiar with the flight-testing process.
- 2) Use the valuable resources of the AOPA Flight Training web site's Flight Test Prep page http://flighttraining.aopa.org/student_pilot/flight_test/ to answer frequently asked questions and sharpen your knowledge.

LESSON 2 1

PRACTICAL TEST PREPARATION

Dual – ground: 0.3, flight: 1.5, simulated instrument: 0.5

Objective: Determine proficiency level

Discussion topics:

- 1) applicable performance criteria
- 2) applicable rules

Review:

- 1) minimum equipment list
- 2) cross-country flight planning
- 3) airplane logbook entries
- 4) preflight inspection
- 5) cockpit management
- 6) engine starting
- 7) radio communications
- 8) airport and runway markings and lighting
- 9) normal and crosswind taxiing
- 10) before-takeoff check
- 11) short-field takeoff and climb
- 12) soft-field takeoff and climb
- 13) navigation procedures
- 14) diversion procedures
- 15) steep turns
- 16) maneuvering during slow flight
- 17) stalls and recovery
- 18) emergency procedures
- 19) flight by reference to instruments
- 20) pilot in command authority and responsibility
- 21) cockpit resource management
- 22) aeronautical decision making
- 23) traffic patterns
- 24) short-field approach and landing
- 25) soft-field approach and landing
- 26) forward slip to landing
- 27) go-around
- 28) after-landing procedures
- 29) post-flight procedures

Completion standards:

- 1) Demonstrates mastery of designated maneuvers and knowledge items
- 2) Altitude, heading, and airspeed meet or exceed PTS standards



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NEXT LESSON: #22, Solo test prep

Suggested student homework assignments:

- 1) Verify that aeronautical experience requirements in the federal aviation regulations http://flighttraining.aopa.org/student_pilot/flight_test/ have been, or will be, met for the desired pilot certificate at the end of the training program.
- 2) Review operating speeds for your aircraft, systems information and emergency procedures in the Pilot's Operating handbook.

LESSON 22

SOLO PRACTICAL TEST PREPARATION

Dual – ground: 0.2

Solo – 2.5

Objective: Further development of flight skills through individual practice

Discussion topics:

- 1) maneuvers and procedures in preparation for practical test

Review:

- 1) short-field takeoffs and landings
- 2) soft-field takeoffs and landings
- 3) steep turns
- 4) maneuvering during slow flight
- 5) stalls and recovery
- 6) forward slip to landing
- 7) radio communications
- 8) ground reference maneuvers

Completion standards:

- 1) Ability to perform required maneuvers to standards higher than the PTS