FLIGHT INSTRUCTOR–AIRPLANE (SE) PTS — QUICK GUIDE

MUST DEMONSTRATE:

1. Knowledge of the fundamentals of instructing.
2. Knowledge of the technical subject areas.
3. Knowledge of CFI responsibilities *re* the pilot certification process.
4. Knowledge of CFI responsibilities *re* logbook entries and pilot certificate endorsements.
5. Ability to demonstrate the procedures and maneuvers selected by the examiner to the commercial pilot skill level while giving effective instruction.
6. Competence in teaching the procedures and maneuvers selected by the examiner.
7. Competence in describing, recognizing, analyzing, and correcting common errors simulated by the examiner.
8. Knowledge of the development and effective use of a course of training, a syllabus, and a lesson plan.

BUST UPON:

1. Failure to perform a procedure or maneuver to the commercial pilot skill level while giving effective flight instruction.
2. Failure to provide an effective instructional explanation while demonstrating a procedure or maneuver (explanation during the demonstration must be clear, concise, technically accurate, and complete with no prompting from the examiner).
3. Any action or lack of action by the applicant which requires corrective intervention by the examiner to maintain safe flight.
4. Failure to use proper and effective visual scanning techniques to clear the area before and while performing maneuvers.

"SPECIAL EMPHASIS AREAS"

- Ability to teach precise aircraft control.
- Ability to teach sound judgment in aeronautical decision making.
- Ability to teach spatial disorientation.
- Ability to teach wake turbulence and low level wind shear avoidance.
- Ability to teach checklist usage.
- Ability to teach positive exchange of flight controls.
- Ability to teach land and hold short operations (LAHSO).
- Ability to teach runway incursion avoidance.
- (CRM must be evident in all tasks as applied to either single pilot or crew operations.)
- (Throughout the test, the applicant is evaluated on the use of an appropriate checklist.)
- (A positive three step process in the exchange of flight controls is strongly recommended.)

TEST CONTENT OUTLINE

[Initial]—This task is only mandatory on tests for an initial CFI certificate, but can be retested on any test.
[Additional]—This task might be tested on the initial, but will always be tested on an additional rating test.

1. Describe flight instructor characteristics and responsibilities [Initial]
2. Describe one (or more) of: [Initial]
    - The learning process
    - Human behavior and effective communication
    - The teaching process
    - Teaching methods
    - Critique and evaluation
    - Planning instructional activity
3. Describe aircraft flight instruments and navigation equipment [Initial]
4. Describe logbook entries and certificate endorsements [Initial]
5. Describe one (or more) of:
    - Aeromedical factors
    - Visual scanning and collision avoidance
    - Principles of flight [Additional]
    - Airplane flight controls [Additional]
    - Airplane weight and balance
    - Navigation and flight planning
    - Night operations
    - High altitude operations
    - Federal aviation regulations and publications
    - National airspace system
    - Navigation systems and radar services
6. Describe one (or more) of:
    - Certificates and documents
    - Weather information
    - Operation of systems [Additional]
    - Performance and limitations [Additional]
    - Airworthiness requirements
7. Present a preflight maneuver lesson on one (or more) of: [Initial]
    - Normal and crosswind takeoff and climb
    - Short field takeoff and maximum performance climb
    - Soft field takeoff and climb
    - Normal and crosswind approach and landing
    - Slip to a landing
    - Go-around/rejected landing
    - Short field approach and landing
    - Soft field approach and landing
    - Power-off 180° accuracy approach and landing
    - Straight-and-level flight
    - Level turns

- Straight climbs and climbing turns
- Straight descents and descending turns
- Steep turns
- Steep spirals
- Chandelles
- Lazy eights
- Eights on pylons
- Rectangular course
- S-turns across a road
- Turns around a point
- Maneuvering during slow flight
- Power-on stalls
- Power-off stalls
- Crossed-control stalls
- Elevator trim stalls
- Secondary stalls
- Spins
- Instrument straight-and-level flight
- Instrument constant airspeed climbs
- Instrument constant airspeed descents
- Instrument turns to headings
- Instrument recovery form unusual attitudes
- Emergency approach and landing

8. Describe, demonstrate and simultaneously explain, and analyze and correct common errors related to one (or more) of:
    - Preflight inspection
    - Cockpit management
    - Engine starting
    - Taxiing
    - Before takeoff check
9. Describe, demonstrate and simultaneously explain, and analyze and correct common errors related to one (or more) of:
    - ATC communications and light signals
    - Traffic patterns
    - Airport runway and taxiway signs, markings, and lighting
10. Describe, demonstrate and simultaneously explain, and analyze and correct common errors related to two of:
    - Normal and crosswind takeoff and climb
    - Short field takeoff and maximum performance climb
    - Soft field takeoff and climb
11. Describe, demonstrate and simultaneously explain, and analyze and correct common errors related to two of:
    - Normal and crosswind approach and landing
    - Slip to a landing

- Go-around/rejected landing
- Short field approach and landing
- Soft field approach and landing
- Power-off 180° accuracy approach and landing

12. Describe, demonstrate and simultaneously explain, and analyze and correct common errors related to one (or more) of:
    - Straight-and-level flight
    - Level turns
    - Straight climbs and climbing turns
    - Straight descents and descending turns
13. Describe, demonstrate and simultaneously explain, and analyze and correct common errors related to one (or more) of:
    - Steep turns
    - Steep spirals
14. Describe, demonstrate and simultaneously explain, and analyze and correct common errors related to one (or more) of:
    - Chandelles
    - Lazy eights
15. Describe, demonstrate and simultaneously explain, and analyze and correct common errors related to eights on pylons
16. Describe, demonstrate and simultaneously explain, and analyze and correct common errors related to one (or more) of:
    - Rectangular course
    - S-turns across a road
    - Turns around a point
17. [Not required—At examiner's discretion] Describe, demonstrate and simultaneously explain, and analyze and correct common errors related to maneuvering during slow flight
18. Describe, demonstrate and simultaneously explain, and analyze and correct common errors related to one (or more) of:
    - Power-on stalls
    - Power-off stalls
19. Describe, demonstrate and simultaneously explain, and analyze and correct common errors related to one (or more) of:
    - Crossed-control stalls
    - Elevator trim stalls
    - Secondary stalls
20. Describe, demonstrate and simultaneously explain, and analyze and correct common errors related to spins (At examiner's discretion, certified logbook entry attesting instructional competency may suffice.)
21. Describe, demonstrate and simultaneously explain, and analyze and correct common errors related to one (or more of):
    - Straight-and-level flight

- Constant airspeed climbs
- Constant airspeed descents
- Turns to headings
- Recovery form unusual attitudes

22. Describe, demonstrate and simultaneously explain, and analyze and correct common errors related to emergency approach and landing
23. Describe recommended pilot action for systems and equipment malfunctions (see PTS for list of 12 malfunctions)
24. [Not required—At examiner's discretion] Describe emergency equipment survival gear
25. Describe postflight procedures and common errors related to postflight procedures