

Lesson 14. Aircraft flight controls and operation of systems

Ground 1.0 hr | Dual 0 hr | ACS AI.II.E

CFI CANDIDATE		DATE	SUPERVISING INSTRUCTOR	
AIRCRAFT	N41459 Warrior	Ground only	FLIGHT TIME	GROUND TIME

OBJECTIVE

The candidate teaches the systems of the airplane they will instruct in, from that airplane's own approved material, and can teach a student what to do when a system misbehaves.

LESSON STEPS: THE ELEMENTS, IN TEACHING ORDER

Check each element as it is taught. Leave anything not done blank. Sign once at the bottom.

- Primary and secondary flight controls, and trim
AI.II.E.K1 FAA-H-8083-25C
- Powerplant, propeller, and induction
AI.II.E.K1
- Fuel system, including the tank selector and unusable fuel
AI.II.E.K1
- Electrical system, and what is lost when it fails
AI.II.E.K1
- Pitot-static and vacuum or equivalent, and the instrument failures each produces
AI.II.E.K1
- Landing gear, brakes, and steering
AI.II.E.K1
- Indications of and procedures for managing system abnormalities or failures
AI.II.E.K2
- Teaching a system: schematic, then indication, then action
FAA-H-8083-9B ch 5
- Candidate teaches an assigned system to the Simulated Student
US-4.1
- Angle of attack indicators: what they measure, what they do not, and the specific installation
FAA-H-8083-15B Addendum, April 2015

COMPLETION STANDARDS

- The candidate teaches an assigned system to the Simulated Student for about ten minutes, working from the actual airplane's approved material.
- The candidate states what a failure of that system looks like from the pilot's seat, in terms of indications rather than causes.
- The candidate states the action a student should take for that failure, and where the student would find it.
- The candidate directs the Simulated Student to the flight manual rather than quoting a number from memory.
- The candidate teaches indication before mechanism, or explains why mechanism came first.
- The candidate states what an angle of attack indicator measures and two of its limitations, and says whether the airplane they instruct in has one, and can say that the FAA's guidance to teach this is guidance rather than regulation.
- The candidate delivers a self-critique before hearing the instructor's.

DEBRIEF AND SIGN-OFF

Critique: the error, its probable cause, and the correction. Candidate self-critique first.

Sign once for the whole lesson. Elements left unchecked above were not taught this session.

SUPERVISING INSTRUCTOR SIGNATURE / INITIALS

DATE