

Standard CFI Homework

Assign the following Homework along with areas seemingly to be in need of strengthening during ground training.

Day 1:

1. Private Pilot Endorsements. Should come Back with A1, A2 & A31, A32.
2. Definition of Instructional knowledge: Found in CFI PTS. Should come back with 'teaching at the correlation and application level of learning whil using appropriate FAA reference materials.
3. Study FOI and Technical Subject area flashcards
4. During integrated flight Instruction, How much should we look outside vs inside. They should find fig 3-5 pg 3-5 AFH. (90/10%)

Day 2:

1. Write out Commercial Pilot endorsements. Should come back with A1, A2, A34, A35
2. Runway incursions (Runway incursions: write 3 paragraphs. 1st defining runway incursion, 2nd choose a runway incursion accident, 3rd explain to student the risks of runway incursions and how to mitigate them.)
3. Static vs dynamic stability and how your airplane is designed. Should demonstrate knowledge of static stability (pos, neg, neutral), also Dihedral for lateral stability (5-17, 5-18 PHAK) and what helps with longitudinal stability 5-15 thru 17 PHAK) and Directional stability 5-19 PHAK?
4. Study FOI and Technical Subject area flashcards
5. Does a plane stall from back of wing forward or front of wing rearward? Fig 1-15, pg 1-14 AFH

Day 3:

1. HP, Complex, Flight Review, Retest (61.49) endorsements. Should come back with A68, A69, A65 and A73
2. Calculate Short Field Takeoff over 50ft obstacle with cfi student and a passenger of 135lbs (Barb) or 190lbs (Brian), fuel at tabs in piper, fuel full in Cessna 172.
3. How/Why carburetor ice forms and what is max temp according to FAA (show chart from handbook).
4. Study FOI and Technical Subject area flashcards

Day 4:

1. First solo endorsements, Should come back with A3, A4, A6.
2. Solo flight to 21d and back: #1 above plus A8
3. Solo x-country to KAEL and back, #1 above plus A9, A10
4. Repeated solo flights from KOWA to KSGS and back (Student plane in OWA) - needs 61.93 also for this one, #1 above plus A9, A11
5. CFI endorsements. Should come back with A1, A2, A41, A43, A45. A41 is often missed but is required even though the student passed the FOI. It is required in the CFI PTS requirements section and in 61.183 (d)
6. Study FOI Flashcards and answer questions on at least one of the Gouges.

Day 5:

1. Assign the 5 dwgs.
 - a. Fig 5-16 AFH Spins. Know all forces, and the three boxes. For fully developed spin, how fast are you going down in ft/min? $500\text{ft/sec} \times 60\text{sec/min} = ?$
 - b. Fig 3-15: Overbanking tendencies
 - c. Fig 3-12: Adverse yaw
 - d. Fig 3-11, Fig 3-13 in the AFH & Fig 5-35 in the PHAK (Slip CF less than Horiz lift, Skid is opposite)
 - e. Fig 5-2: Forces in a stabilized climb. Make sure they know which way arrow goes on rearward component of weight and also know how to draw component of weight apposing lift.
 - f. Why air speeds up over a wing. Along with what is the weight of the atmosphere on the wing (PHAK pg 4-3 find the 14.7lbs psi)
2. Study FOI & technical subject area Flashcards and answer questions on all of the Gouges.

Day 6 and all days prior to check ride:

1. Focus on Aerodynamics, FOI & technical subject area Flashcards and answer questions on all of the Gouges.
2. Practice Manuever Lesson(s) provided.
3. Focus on Task E FOI, Task B, M on Technical Subject areas.