

Pre-Solo Written Exam WVFC Supplement

West Valley Flying Club has its own required pre-solo quiz. This document provides some additional questions that are not addressed on the WVFC quiz.

61.87(b) *Aeronautical knowledge*. A student pilot must demonstrate satisfactory aeronautical knowledge on a knowledge test that meets the requirements of this paragraph:

- (1) The test must address the student pilot's knowledge of --
 - (i) Applicable sections of parts 61 and 91 of this chapter;
 - (ii) Airspace rules and procedures for the airport where the solo flight will be performed; and
 - (iii) Flight characteristics and operational limitations for the make and model of aircraft to be flown.
- (2) The student's authorized instructor must --
 - (i) Administer the test; and
 - (ii) At the conclusion of the test, review all incorrect answers with the student before authorizing that student to conduct a solo flight.

Student name: _____

Instructor name: _____

Date graded: _____

The airport to be used is: _____

The aircraft to be used is (make and model): _____

Instructions:

- The first part of this test is closed book.
- The second part of this test is open book and may be completed at home. For this portion, *list the appropriate reference* (e.g. FAR citation or POH page number) for each question in addition to the answer.
- References to use:
 - o FAR/AIM
 - o Current terminal and sectional charts
 - o Current Airport/Facility Directory
 - o Aircraft's Pilot Operating Handbook

Open Book Exam

Part 61

- 1) How long is a student pilot certificate valid?
- 2) How long is your medical certificate valid, taking into account the certificate class and your age?
- 3) If you receive a solo endorsement for a particular make and model (e.g. Cessna 152), can you solo a similar model (e.g. Cessna 172 or Cessna 150) without additional endorsements?
- 4) Who is responsible for keeping track of your solo endorsement and ensuring that you don't solo past your endorsement's expiration?
- 5) What is required to be able to solo at night? What is the definition of "night" in this case?
- 6) If your solo endorsement expires, can an instructor who has never flown with you renew your solo endorsement?

Part 91

- 7) Who is the Pilot In Command during a solo flight, and how is the flight logged?
- 8) The stall warning horn is broken. Is it legal to fly, and if so, what do you need to do? Use all available references.

- 9) The outside air temperature gauge is broken. Is it legal to fly, and if so, what do you need to do? Use all available references.
- 10) What are the cloud clearance requirements in Class E airspace?
- 11) What is the maximum altitude you can legally fly without ever using oxygen?
- 12) When must an aircraft's position lights be on?
- 13) Define the meaning of the following light signals from a tower when on the ground and when airborne:

Ground

Flight

Steady green:

Flashing green:

Steady red:

Flashing red:

Alternating red & green:

Flashing white:

Aircraft Characteristics and Limitations

- 14) What is the procedure for dealing with an engine failure in flight?

- 15) What is the procedure for recovering from a spin?
- 16) What is the maximum allowable RPM drop during the magneto check? If the RPM drop exceeds this amount, or the engine sounds unusually rough, what should you do?
- 17) What is the weight and balance with just you in the airplane and full fuel, and with just you and no fuel? Are the weight and C.G. within allowable limits in each case?
- 18) Will the engine still run with the master switch turned off?