

PRE-SOLO WRITTEN EXAM

NAME: _____

DATE: _____

INTRODUCTION - As specified in 14 CFR Part 61

Pre-solo aeronautical knowledge: § 61.87(b)

- (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 & procedures for the airport where the solo flight will be performed;
 - (iii) Flight characteristics & limitations for the make and model of aircraft to be flown.
- (2) The student's authorized instructor must --
 - (i) Administer the test; and
 - (ii) review all incorrect answers before authorizing that student to conduct a solo flight.

This exam contains a total of 44 questions: 15 general questions, 11 aircraft questions, 9 airport and airspace questions, and 9 questions about what you should consider when flying solo.

A) GENERAL QUESTIONS

- (1) What is the make and Model of aircraft you have been training in?
- (2) What personal documents are you required to have with you when you fly solo?
- (3) What aircraft certificates and documents must be on board when you are flying?
- (4) What are your student pilot limitations regarding carriage of passengers or cargo?
- (5) Who has the final authority and responsibility for the operation of the aircraft when you are flying solo?
- (6) Describe the FAA regulation on minimum fuel reserves. What is the American Airman's policy?
- (7) What should you do if you are approaching head-on with another aircraft?
- (8) If another single-engine aircraft is converging from the right, who has the right-of-way?

B) AIRCRAFT QUESTIONS

- (1) Define and indicate the following V-speeds for your airplane.
 V_{NE} V_{NO} V_A V_{FE} V_S V_{SO} V_X V_Y V_R
- (2) What is the recommended approach speed for your aircraft?
- (3) What is the demonstrated X-wind component for your aircraft?
- (4) What is the best glide speed for your airplane?
- (5) What is the total usable fuel and endurance for your aircraft?
- (6) What are the minimum and maximum oil capacities of your aircraft?
- (7) Is it ok to depart with the oil level exactly equal to the minimum recommended level?
- (8) When should you use carburetor heat?

C) AIRPORT AND LOCAL AIRSPACE QUESTIONS

- (1) What is the MSL altitude for the traffic pattern?
- (2) What are the typical dimensions of Class C, and what requirement(s) must be met prior to entry?
- (3) Name visual checkpoints that help you identify your airport and surrounding airspace.
- (4) Describe Class B airspace boundaries that affect ISP.
- (5) You have called ATC prior to entering Class C airspace, and the controller responds, “*Standby.*” Are you now allowed to enter this airspace with out any further instructions? Explain.

D) DEFINE

- (1) Touch and Go
- (2) Full Stop
- (3) Stop & Go
- (4) Full Stop – Taxi Back
- (5) Low Approach
- (6) The Option
- (7) Short Approach
- (8) Go Around
- (9) Say Intentions
- (10) Closed Traffic
- (11) Hold Short
- (12) Line Up and Wait

E) FLYING SOLO

- (1) What are some things you should consider prior to you engine run up?
- (2) How fast should you taxi your airplane?
- (3) What should you do if you’re unsure about wing clearance while taxiing?
- (4) When practicing steep turns, stalls, and maneuvering during slow flight, the entry altitude must allow a recovery to be completed no lower than what altitude AGL?
- (5) When is a go-around appropriate?
- (6) When can you turn base?
- (7) What general steps should you follow after an engine failure in flight?
- (8) How do you enter the traffic pattern at a Class D airport? Radio communications, procedures, etc.?
- (9) What will you do if ISP is closed while you are flying solo?