



**Objective:** To make sure the customer has the appropriate knowledge to fly solo.

### **Suggested Procedures:**

1. Prior to your customer's impending first solo flight (allow reasonable time), assign an open book quiz to be completed by the scheduled pre-solo briefing. Suggested topics are included below, but you will also want to make sure that your quiz covers the specifics of this customer's airport, local operating area, and aircraft.
2. During pre-solo briefing, review the open book quiz with your student and make sure that the student comfortably understands all the concepts.
3. Administer a closed book pre-solo aeronautical knowledge test per 14 CFR Part 61.87(b) and upon completion, review all incorrect answers with your customer.
4. Use the pre-solo briefing topic list to make sure that all appropriate topics have been covered.

### **Pre-solo Briefing Topics:**

- Flight school safety practices and procedures
- Airworthiness requirements
- Preflight preparation and inspection
- Aircraft performance and operating limitations
- Fueling
- Fuel reserves
- VFR weather minimums
- VFR cruising altitudes
- Minimum safe altitudes
- Careless and/or reckless operation
- Radio procedures
- Right-of-way rules
- ATC light signals
- Emergency procedures including carburetor icing
- Collision avoidance
- Practice area location(s)
- Local airspace
- Traffic pattern
- Solo flights restrictions
- Required certificate and logbook endorsements

Pre-Solo Briefing & Test Topics [Open](#) Book Quiz Questions Instructions:



## Private Pilot Stage 1 - Learning The Basics

### 1.05 Pre-Solo Quiz

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1. Define and list the following speeds for your aircraft:

VS:	VSO:	VX:	VY:
VA:	VFE:	VNO:	VNE:

2. List the procedure to respond to an engine fire on the ground while starting.

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3. Draw the taxiway marking that you would see approaching a runway and would not cross without ATC clearance (indicate taxiway and runway sides).

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4. List at least three good practices to avoid runway incursions.

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5. Explain your actions if the tower gives you the instruction "line up and wait."

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7. List the procedure to respond to an in-flight engine failure.

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8. List the procedure for loss of communication radio when arriving at an airport with an operating control tower.

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9. List the procedures for an in-flight engine fire.

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10. Describe collision avoidance procedures climbing, descending to a traffic pattern, and before starting maneuvers.

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Answer each question in the space provided, using the FARs, the AIM, the Airport/Facility Directory, and the Pilot's Operating Handbook. Use the space underneath the question number to list the reference for each question.

1. What is the maximum gross weight of the airplane in the Normal category?

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2. If a glider is converging with an airplane, which has the right of way?

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3. What are the limit load factors in both the Normal and Utility categories with the flaps up? Flaps down?

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4. What preflight action is required of a pilot prior to a flight?

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5. What is the maximum rpm of your airplane? \_\_\_\_\_

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6. Define an aerobatic maneuver.

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7. Generally describe the engine in your airplane.



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8. List the definition of careless or reckless operation.

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9. What is the oil sump capacity in your airplane? What is the minimum?

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10. What is the minimum amount of time after the consumption of alcohol a pilot is required to wait before flying?

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11. What would happen to the fuel indicators if all electricity in the airplane was lost?

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12. What are the basic VFR weather minimums? What is the minimum visibility for a student pilot?

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13. Why is it necessary to drain fuel out of the sumps after refueling and before the first flight of the day?

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14. What actions does a pilot take while taxiing at an airport with a control tower and the pilot sees a flashing white light from the control tower?

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15. Will the engine still run if the master switch is turned off? Why or why not?

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16. What are wing-tip vortices (wake turbulence)? With which aircraft are they greatest? Describe proper avoidance.

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17. What endorsements are required for solo flight? What three documents must you have in your possession to solo an aircraft as a student?

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18. During runup, what is the maximum allowable rpm drop when checking the magnetos?

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19. Draw an airport traffic pattern, labeling each leg and the proper entry and departure points. Which turn direction is standard for an airport traffic pattern?

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20. List the traffic pattern altitude, direction of turns, noise abatement procedures, and all radio frequencies for the following local area airports KDSM and their runways.

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21. What is the fuel capacity? How much is usable?

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22. What is the authority and responsibility of the pilot in command?

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23. When are you required to wear a safety belt?

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24. When are you permitted to deviate from an ATC instruction?

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25. What grade(s) of aviation fuel is/are available for use? What color is each?

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26. When an aircraft is approaching another head-on, each pilot should alter their course to the

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27. A (n) \_\_\_\_\_ on the runway indicates that the runway is closed.

28. Draw the pavement marking requiring you to stop before entering a runway.

29. When is dropping objects from an airplane permitted?

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30. The \_\_\_\_\_ of two aircraft on approach to the same runway has the right of way.

31. What must a pilot do before entering Class B airspace?

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32. What is the minimum safe altitude anywhere? Over congested areas?

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33. List the day-VFR weather minimums in Class G, E, and D airspace.

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34. List the documents that must be aboard the airplane at all times.

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35. When must the airplane's navigation lights be on?

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36. Can a student pilot fly into Class B airspace? If so, what is required?

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37. What is the minimum reserve fuel required for day VFR operations?

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38. What is the airspace at KDSM? What are the minimum weather conditions and minimum equipment requirements?

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39. During a local, solo training flight and leaving the KDSM traffic pattern, what agency will US Flight Co student monitor while in the practice area?

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40. What are the steps to recovering from a power-off stall?

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Instructor Name (Print)

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Student Name (Print)

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Instructor Signature

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Date

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Student Signature

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Date