

Presolo Written Exam

Pilot's Name:
Flight Instructor Name:
Date of Exam:
Airplane Make and Model:

1. What are the required documents for an aircraft to be airworthy?
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2. What are the required inspections for day VFR flight?
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3. List the minimum equipment and instruments that must be working properly in your aircraft for VFR day flight?
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4. What personal documents and endorsements must you have on board during solo flight?
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5. What do the FAR's specify regarding alcohol and flying?
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6. What are the limitations of solo privileges?
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7. When can a student pilot log PIC time?
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Presolo Written Exam

8. Who has the final authority and responsibility for the operation of the aircraft when you are flying solo?
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9. What preflight actions are required concerning the airport and aircraft performance for a local flight?
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10. Define night per FAR's.
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11. What is the minimum fuel reserve for day/night VFR flight, and on what cruise speed is the fuel reserve based?
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12. What are the general requirements pertaining to the use of safety belts and shoulder harness?
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13. Can student pilots fly in Class D airspace, Class C, or Class B as a student pilot?
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14. A transponder with mode C is required at all times in all airspace, and within miles of the primary airport in Class airspace.
15. Who has the right-of-way when two aircraft are on final approach to land at the same time?
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16. What should you do if you are flying a head-on collision course with another aircraft?
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17. If another single-engine aircraft is converging from the right, who has the right-of-way?
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Presolo Written Exam

18. Except when necessary for takeoffs and landings, what are the minimum safe altitudes when flying over congested and other than congested areas?
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19. If the altimeter setting is not available at an airport, what setting should you use before departing on a local flight?
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20. When practicing steep turns, stalls, and slow flight, the entry altitude must allow recovery to be completed no lower thanfeet AGL.
21. When is a go-around appropriate?
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22. Do you need clearance from the tower prior to going around?
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Aircraft Checkout Sheet

1. How many fuel tanks does the aircraft have?
2. How many gallons of fuel do the tank(s) hold total?
3. How many gallons are usable?
4. What fuel grade is recommended and what color is it?
5. Who manufactures the engine?
6. What is the maximum horsepower produced by the engine?
7. What type of engine oil is recommended?
8. What is the maximum amount of oil that can be used?
9. What is the minimum amount of oil that can be used?
10. Describe the propeller on the airplane?

Presolo Written Exam

11. What is the basic empty weight?
12. What is the useful load?
13. What is the maximum takeoff weight?
14. Define and list the following speeds for this aircraft?

	Definition	Speed
V_{SO}
V_S
V_G
V_X
V_Y
V_{FE}
V_A
V_{NO}
V_{NE}

15. What is the maximum demonstrated crosswind component?
16. What is the range of the white arc?
17. What is the range of the yellow arc?
18. What is the limit of the redline and what does it mean?
19. What would you do if the engine died during your idle check on the pre take off check?
20. What is the procedure for an engine failure during takeoff?

Presolo Written Exam

- 21. What procedure do you follow if you have an engine failure in flight?
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- 22. What procedure do you follow if you have an electrical fire in flight?
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- 23. What procedure do you follow if you have a flat tire on landing?
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- 24. What would you do if the engine starting running rough?
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- 25. When do you use carburetor heat/alternate air in the? What are the indications of intake icing?
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- 26. What is the proper procedure for a flaps up landing?
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- 27. Explain density altitude and how it affects your airplane?
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- 28. What is best glide for this aircraft?
- 29. What is the maximum allowable flap setting for takeoff in your aircraft?
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Presolo Written Exam

30. What is wake turbulence?

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31. Explain the importance of noting where large aircraft rotate and land with regard to wake turbulence?

32. Explain maneuvering speed (V_a)?

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Airport and Local Airspace

*Assume you are operating solo for the following questions

1. What are the traffic patterns for each runway at your airport? What is the MSL altitude for the traffic pattern?

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2. How do you enter and exit the traffic pattern at your airport? What radio communications are required?

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3. Are you permitted to do touch and goes at Falcon Airport?

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4. How far can you travel from KFFZ without a cross-country endorsement?

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5. What is the standard direction of turns in the traffic pattern? Give some examples of how you might ascertain traffic pattern direction.

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6. What is a CTAF? What is the CTAF at KFFZ and when should it be used?

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Presolo Written Exam

7. How do you determine if a runway is closed?
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8. How are the boundaries of class D depicted on a terminal chart?
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9. Explain the minimum visibility and ceiling requirements for VFR flight in KFFZ?
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10. If you receive ATC instructions you feel may compromise safety or might cause you to violate a regulation, what should you do?
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11. Falcon Tower tells you “hold short runway 22L, landing traffic” What does that mean?
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12. Falcon Tower tells you to line up and wait, runway 22R” What does that mean?
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13. What do you do if you are unsure of an ATC instruction?
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14. What would you do if you were unable to establish radio contact with KFFZ prior to entering their airspace?
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15. What is the general shape of Class B airspace? How is Class B airspace depicted on VFR Charts?
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Presolo Written Exam

16. Define the following airport signs and markings:

17. What is the meaning of each of the following ATC light signals?

INFLIGHT

- Steady Green.....
- Flashing Green.....
- Steady Red.....
- Flashing Red.....
- Alternating Red and Green.....

ON GROUND

- Steady Green.....
- Flashing Green.....
- Steady Red.....
- Flashing Red.....
- Alternating Red and Green.....
- Flashing White.....