BFR/Aircraft Checkout Questionnaire (ASEL)

Pilot Name

Questions Administered By

Date Exam Completed

Procedures and Instructions

This is an "open book" questionnaire. Answers to most questions can be found in the current FAR/AIM and Pilots Operating Handbook/Owner's Manual. Each of the questions in this exam requires the Pilot to supply an answer rather than choose the correct answer as in most FAA tests. Consequently, some research and "digging" will be necessary. After the Pilot completes the exam, it will be reviewed with the instructor. Any incorrect answers will be discussed and corrected.

This is not a pass/fail exam. All questions address important areas that are critical to safe, legal and enjoyable flying. It is most important that the information be known and understood.

General Questions

- 1. What class of medical certificate do you hold? How long is your medical certificate valid for? FAR Reg #?
- 2. What are the "recency of flight experience" requirements to carry passengers for day and night VFR?
- 3. Which aircraft documents are required to be on board for each flight? FAR Reg #?
- 4. What personal documents must be on board when you are flying?
- 5. What are your limitations as a private pilot regarding carrying of passengers or cargo and flying for compensation or hire? FAR Reg #?
- 6. Who has the final authority and responsibility for the operation of the aircraft?
- 7. What preflight action is required prior to a flight? FAR Reg #?
- 8. If your address has changed, how long after a change of address do you have to notify the FAA?

- 9. During engine run-up, you cause rocks and debris to be directed toward another aircraft or person. Could this be considered careless or reckless operation of an aircraft? Why? FAR Reg #
- 10. What are wing-tip vortices (wake turbulence)? When are they greatest? Describe the proper avoidance.
- 11. Discuss the right-of-way rules regarding overtaking another aircraft, approaching head-on, another aircraft converging from the side and final approach?
- 12. What are the general requirements pertaining to the use of safety belts and shoulder harnesses? FAR Reg #?
- 13. When is a go-around appropriate?
- 14. Discuss the steps in the go-around process.
- 15. When are you permitted to deviate from an ATC instruction?
- 16. What is Flight Following? Where can you find the frequency?
- 17. What is the minimum amount of time a pilot is required to wait after the consumption of alcohol? What is the BAC limit? FAR Reg #?
- 18. Can a drug or alcohol conviction affect your pilot privileges? Are you supposed to report it to FAA?
- 19. What is the minimum reserve fuel required for day VFR operations? On what speed is the fuel reserve based?

- 20. Except when necessary for takeoffs and landings, what are the minimum safe altitudes when flying over congested and other than congested areas? FAR Reg #?
- 21. When is it required to use supplemental oxygen?
- 22. Which inspections are required to maintain an airworthy aircraft and how often? FAR Reg #?
- 23. Will the engine still run if the master switch is turned off? Why?
- 24. What general steps should you follow after an engine failure in flight?
- 25. If you see smoke coming from the panel, what does this indicate and what would you do?
- 26. What would happen to the fuel indicators if all electricity in the airplane were lost?
- 27. During flight, you begin to see a gradual decrease in power. What is a likely cause and what should be done to remedy the situation?
- 28. What is Density altitude and how does it affect aircraft performance?
- 29. When would you use these transponder codes? 1200, 7500, 7600, 7700

Aircraft Questions

1. List the minimum equipment and instruments that must be working properly in your aircraft for day VFR flight.

- 2. What is the best glide speed for your airplane?
- 3. Describe the changes in Va with changes in the gross weight of an aircraft.
- 4. What grade or grades of fuel can be safely used in your aircraft? What are the colors of the recommended fuels? What happens to the color if two grades are mixed?
- 5. What are the minimum and maximum oil and fuel capacities for your airplane?
- 6. What is the cross wind limitation of your aircraft?
- 7. What is the maximum gross weight of your airplane?
- 8. Describe your aircraft engine, what is the BHP, and what it the RPM?
- 9. If your aircaft has carburetor heat, under what circumstances should you use it?
- 10. Under what circumstances could a spin occur in your aircraft?
- 11. Describe the spin recovery procedures for your aircraft.
- 12. What is the stall speed of your airplane in a 45 and 60 degree bank with flaps up?

Airport/Airspace

1. Describe how you would approach and enter the traffic pattern at an uncontrolled airport.

- 2. What radio calls are recommended as you approach and fly in the traffic pattern at an uncontrolled airport?
- 3. Should the radio call "Any Traffic Please Advise" be used?
- 4. What is your method of obtaining weather, NOTAMS, and other items pertinent to your flight?
- 5. List two ways to get the local altimeter setting at an airport if AWOS is inoperative?
- 6. How can you tell if a runway is closed?
- 7. Explain the visual illusions and typical visual effects on the final approach caused by:
 - a. Rain
 - b. Haze
 - c. Narrower than usual runway
 - d. Wider than usual runway
 - e. Up sloping runway
 - f. Down sloping runway
- 8. If you receive ATC instructions that you do not understand or feel may compromise safety, what should you do?
- 9. What are the Basic VFR weather minimums?
- 10. What are the VFR cruising altitude rules?
- **11.** When is it mandatory to use ADSB?
- 12. What is an Alert area? Restricted Area? MOA?

- 13. What are the cloud and visibility requirements for the following airspace and what requirement(s) must be met prior to entry?
 - a. Class Bb. Class Cc. Class D
 - d. Class E
 - e. Class G

Perform the following calculations using the conditions provided:

Takeoff and Landing Distances

Field Elevation	7500'	T/O Distance	(50' obs.)
Temperature	30 degrees F		
Weight	Max Gross	Landing Distance	(50' obs.)
Wind	15 kts		
Runway	Hard Surface		
Field Elevation	7500'	T/O Distance	(50' obs.)
Temperature	50 degrees F		
Weight	Max Gross	Landing Distance	(50' obs.)
Wind	0 kts		
Runway	Hard Surface		

Weight and Balance

Enter the current weight and balance information for your aircraft and then calculate the weight and balance for the conditions given.

Fuel40 Gal.Pilot200 lbs.

Co-Pilot135 lbs.Back Passengers360 lbs.Baggage A25 lbs baggage.Oil22 lbs.

Personal Minimums

- 1. Do you have personal minimums/maximums? If so what are the following?
 - a. Minimum Ceiling-
 - b. Minimum Visibility-
 - c. Maximum Surface Winds-
 - d. Maximum Crosswind-
 - e. Maximum Density Altitude-
 - f. Maximum Winds Aloft