



Aircraft Familiarization Test

This exam is to be used as a tool to help a pilot become familiar with the fundamental specifications, mechanical systems, and specific procedures that will be required to safely operate Henley Aviation, LLC Rental Aircraft. The pilot should utilize all available resources, including each aircraft's Pilot Operating Handbook, the Pilot Information Manual, placards, etc., to aid in this review. After the exam has been completed and corrected to 100% with his instructor, it will be kept on file at Henley Aviation.

1. What documents must be on board the aircraft?
2. How would you deal with Inoperative Equipment?
3. What is the rated horsepower of the engine?
4. What is the total/useable fuel capacity?
5. What grades of fuel are approved for use?
6. What colors are the approved grades of fuel?
7. Where are the fuel sumps located?
8. When are they normally drained?
9. Approximately how many gallons of fuel does this plane burn in an hour?
10. Describe the fuel system in this aircraft.
11. How many fuel pumps are installed?
12. How is each fuel pump driven?
13. How do you detect carburetor ice (if applicable)?
14. If you detect carburetor ice what should you do (if applicable)?
15. Why is the use of carburetor heat only allowed for short periods of time in the Warrior (if applicable)?
16. What is the minimum oil quantity required for dispatch?

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17. What grade of oil is typically used?
18. How would you determine if your alternator has failed?
19. What is the normal output of the alternator?
20. What is the normal output of the battery?
21. Can you determine battery discharge on the ammeter?
22. What is the normal operating range of the vacuum system?
23. Where is the pitot tube located?
24. Where is the static port located?
25. Where is the alternate static source located?
26. What are the procedures for a loss of power in-flight?
27. What are the procedures for an electrical fire in flight?
28. What would the short-field takeoff and obstacle clearance distances be for the following:
 - @ Field pressure altitude 500'
 - @ Temperature 85F
 - @ Calm winds
29. What would the landing distance required with an obstacle be for the following:
 - @ Field pressure altitude 100'
 - @ Temperature 85 F
 - @ 5kt Headwind
30. What is the aircraft empty weight?
31. What is the useful load?
32. What is the approved range of the center of gravity?
33. What is the Max Gross Takeoff Weight?
34. What is the Max Landing Weight?

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35. What would the center of gravity be with in the following scenario:

Front seats: 2 pax @ 180 lbs

Rear seat; 1 pax @ 165 lbs

Baggage: 501bs

Fuel: Topped Off

36. What are the following speeds;

Vne _____

Vso _____

Vso in a 60@ bank _____

Vs _____

Vfe _____

Va _____

Vx _____

Vy _____

What is the normal Approach speed? _____

What is the recommended speed for a short field approach? _____

What is the Maximum Demonstrated Crosswind Component? _____

What is the best glide speed? _____

I certify that I have received ground instruction on this aircraft's Operating Handbook and Operating Procedures,

Pilot's Name _____ Cert. Number _____
Date _____

Flight Instructor _____ Cert. Number _____
Date _____

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