

Chester County Aviation - - - - Single-Engine Questionnaire

This form is to be used as an aid in reviewing FAR Part 91 fundamental specifications, mechanical systems and procedures for the aircraft flown. Utilize all available aircraft documents to aid in this review, ie: AFM, POH, placards or markings. After completion and review, this form will become part of the pilot's insurance file. **Not All Questions Apply to All Aircraft.**

Pilot: _____ Date: _____

Aircraft Make & Model: _____ N#: _____

1. How many fuel tanks are there? _____
2. What is the capacity of each tank? _____ What is the total capacity? _____
3. What is the total useable fuel capacity? _____
4. What is/are the useable fuel Grade(s)? _____ Color(s)? _____
5. Where are the fuel drains/sumps located? _____
6. When are they drained? _____
7. What is the recommended grade and type of oil to be used? _____
8. What is the minimum operating oil level? _____ Maximum oil level? _____
9. What is the aircraft basic empty weight? _____
 - a. Does basic empty weight include oil? _____
 - b. Does basic empty weight include unusable fuel? _____
10. What is the useful load? _____
11. Give the following weights:
 - a. Maximum Takeoff Weight: _____
 - b. Maximum Landing Weight: _____
 - c. Maximum Ramp Weight: _____
12. What is the Center of Gravity Range at maximum takeoff weight? _____
13. What is the recommended short-field takeoff procedure? _____

14. What is the recommended short-field final approach speed? _____ Flap Setting? _____
15. What is the recommended short-field landing procedure? _____

16. What is the recommended soft-field takeoff procedure? _____

17. What is the recommended soft-field climb-out speed? _____ Flap Setting? _____
18. What is the recommended soft-field final approach speed? _____ Flap Setting? _____

19. What is the recommended soft-field landing procedure? _____

20. What is the recommended normal climb-out speed? _____ Flap Setting? _____
21. What is the recommended normal approach speed? _____ Flap Setting? _____
22. What is the best rate of climb (Vy) at sea level? _____ At 10,000 MSL? _____
23. What is the best angle of climb (Vx) speed? _____

24. What is the maneuvering speed (V_a) range? _____
25. What effect does reducing gross weight have on V_a ? _____
26. What is the stall speed in landing configuration (V_{so})? _____
27. What is the maximum demonstrated crosswind component? _____
28. What is the purpose of flaps? _____
29. What are the indications of carburetor ice? _____
30. In the event of carburetor ice, what do you do? _____
31. What is the power setting, fuel consumption and true airspeed for the following?
60% Power, 8,000' standard temperature
- RPM? _____
 - Fuel Consumption? _____
 - True Airspeed? _____
32. What would be the indication of an alternator or generator failure? _____
33. What is the "Go Around" procedure? _____
34. Calculate the following takeoff distances:
- Max. Gross Weight, no wind, sea level, and standard temp? _____
 - Max. Gross Weight, 8 kt. Headwind, 2000' 86 degree F, 50' obstacle? _____
35. When are passengers required to have their seat belts fastened? _____
36. What documents must be onboard during flight? _____
37. Provide the basic VFR weather minimums for flight in Class E airspace, below 10,000'
- Visibility? _____
 - Ceiling? _____
38. Cloud Clearance: Above? _____ Below? _____ Side? _____
39. VFR cruising altitudes (odd's + 500 / even's + 500) are required above what altitude? _____ MSL or AGL? _____
40. What inspections are required for this aircraft? _____
41. Does this aircraft have an alternate static source? ___ If so, where? _____
42. What instrument will be affected by the use of an alternate static source? _____
43. What changes will be experienced if you use your alternate static source in flight? _____

Questionnaire Reviewed by: _____ Date: _____

Approved for Solo Rental by: _____ Date: _____