

# Cindtronix Aviation

## TRAINING DEPARTMENT AIRCRAFT GROUND REVIEW CHECKLIST *All aircraft documents may be used for this review.*

*This form is to be used as an aid in reviewing FAR Part 91, fundamental specifications, mechanical systems, and procedures of the aircraft that is being flown. All questions may not be applicable to all aircraft. Utilize all available aircraft documents to aid in this review. I.e. Owner's Manual, Operator's Manual, placards, markings or listings. After completion of the review, this form should remain the property of the pilot for his / her reference.*

PILOT: \_\_\_\_\_ Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Aircraft Make and Model: \_\_\_\_\_

1. What is the total fuel capacity? \_\_\_\_\_ How many tanks are there? \_\_\_\_\_  
What is the capacity of each tank? \_\_\_\_\_ (gal)
2. What is the total usable fuel capacity? \_\_\_\_\_
3. What is the correct fuel grade(s)? \_\_\_\_\_ Color? \_\_\_\_\_
4. Where are the fuel drains located & how many? \_\_\_\_\_
5. When are they drained? \_\_\_\_\_
6. What is the recommended grade and type of oil? \_\_\_\_\_
7. What is the minimum operating oil level? \_\_\_\_\_
8. What is the aircraft empty weight? \_\_\_\_\_
9. What is the useful load? \_\_\_\_\_
10. What is the maximum aircraft takeoff gross weight? \_\_\_\_\_
11. What is the maximum aircraft landing weight? \_\_\_\_\_
12. What is the center of gravity range? \_\_\_\_\_  
(Use maximum gross weight and work sample weight and balance.)
13. What are the recommended short field take off and landing procedures? \_\_\_\_\_
14. What are the recommended soft field take off and landing procedures? \_\_\_\_\_
15. What is the recommended normal approach airspeed? \_\_\_\_\_
16. What is the best rate of climb speed ( $V_y$ )? \_\_\_\_\_
17. What is the best angle of climb speed ( $V_x$ )? \_\_\_\_\_
18. What is the maneuvering speed ( $V_a$ ) \_\_\_\_\_ Kts/(Mph) When is it used? \_\_\_\_\_
19. What effect does reducing gross weight have upon maneuvering speed? \_\_\_\_\_
- 20. What are the maximum speeds for landing gear extension and retraction? \_\_\_\_\_
21. What is the 1G, MTOW stall speed in landing configuration ( $V_{so}$ )? \_\_\_\_\_
22. What is the 1G, MTOW speed in the clean configuration? \_\_\_\_\_
23. What is the maximum demonstrated crosswind component for your aircraft (20%  $V_{so}$ )? \_\_\_\_\_
24. What is the purpose of flaps? \_\_\_\_\_
- 25. What is the minimum control speed ( $V_{mc}$ ) with the 'critical engine' inoperative? \_\_\_\_\_
- 26. What are the unsafe gear indications? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

→ Complex Aircraft

- 27. What is the procedure for emergency gear extension? \_\_\_\_\_  
\_\_\_\_\_
28. How do you detect carburetor ice? \_\_\_\_\_
- 28a. What corrective action would you take to eliminate carburetor ice? \_\_\_\_\_
29. Based on the aircraft's Cruise Performance Chart, at 75% power, 4,000 feet and standard temperature, calculate:  
Manifold Pressure: \_\_\_\_\_ RPM: \_\_\_\_\_  
Fuel Consumption (GPH): \_\_\_\_\_ TAS: \_\_\_\_\_
30. What indication would you have of alternator failure on your aircraft? \_\_\_\_\_
31. If the overvoltage sensor light comes on, what does it mean and what corrective action would you take? \_\_\_\_\_  
\_\_\_\_\_
- 31a. If the engine-driven vacuum pump failed, what instruments would become inoperative? \_\_\_\_\_  
\_\_\_\_\_
32. Describe the "Go Around" procedure: \_\_\_\_\_  
\_\_\_\_\_
33. What is the minimum runway length for takeoff in your aircraft under the following conditions?  
Max. gross weight, no wind, sea level, standard temperature \_\_\_\_\_  
Max. gross weight, no wind, 5,000 ft., 90° temperature, 50 ft. obstacle \_\_\_\_\_
34. When are your passengers required to have their seatbelts and shoulder harnesses fastened (FAR 91.107)? \_\_\_\_\_
35. What aircraft documents must be on board during flight?(AROW) \_\_\_\_\_  
\_\_\_\_\_
36. What are the basic VFR weather minimums for flight in Class "D" airspace? Ceiling? \_\_\_\_\_ Vsby? \_\_\_\_\_
37. What avionics equipment is required to fly into Class B and Class C airspace? \_\_\_\_\_
38. Class "D" airspace with an operating control tower extends from the surface to what altitude? \_\_\_\_\_
39. What inspections are required of a flight school aircraft? \_\_\_\_\_
40. Is the aircraft approved for spins? \_\_\_\_\_
41. Describe the proper spin recovery technique. \_\_\_\_\_
42. On a two-bar VASI, if you see red over red, you are \_\_\_\_\_ the glide path.
43. What is the horsepower rating of the engine? \_\_\_\_\_ @ what RPM?
44. What is the *minimum* and *maximum* oil pressures for this engine? \_\_\_\_\_

Reviewed by: \_\_\_\_\_

Instructor

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_