



## C-150 Tailwheel Checkout Questionnaire

Name \_\_\_\_\_ Date \_\_\_\_\_

Certificate and Ratings \_\_\_\_\_ Certificate# \_\_\_\_\_

Total Time \_\_\_\_\_ Instructor (*if applicable*) \_\_\_\_\_

### **Airspeeds**

1. What are the following V speeds in KIAS?

V<sub>r</sub> \_\_\_\_\_ V<sub>x</sub> \_\_\_\_\_ V<sub>y</sub> \_\_\_\_\_

V<sub>s</sub> \_\_\_\_\_ V<sub>so</sub> \_\_\_\_\_ V<sub>no</sub> \_\_\_\_\_

V<sub>ne</sub> \_\_\_\_\_ V<sub>a</sub> \_\_\_\_\_ V<sub>fe</sub> \_\_\_\_\_

2. What are the best glide airspeeds for the airplane? \_\_\_\_\_  
\_\_\_\_\_

3. Does V<sub>a</sub> change with a change in aircraft weight? If so, why is this important? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. List the approach speeds for full flaps, partial flaps, and no flaps. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Emergency Procedures

5. Describe the emergency procedure (*and checklist*) you would perform if you had an engine failure just after takeoff. (*below 500 ft AGL*) \_\_\_\_\_

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6. Describe the emergency procedure (*and checklist*) you would perform if you had an engine failure while in the traffic pattern. (*1000 ft AGL*) \_\_\_\_\_

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7. Describe the emergency procedure (*and checklist*) you would perform if you had an engine failure while at cruise. (*above 3000 ft AGL*) \_\_\_\_\_

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8. Describe the procedure to perform for a forced landing. \_\_\_\_\_

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9. Describe how and when you would execute an emergency descent. \_\_\_\_\_

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10. Describe the "Engine Fire In Flight" checklist. \_\_\_\_\_

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11. What action should be taken if you experience low or high oil pressure? \_\_\_\_\_

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12. What action should be taken if the ammeter indicates excessive or overcharge during flight? \_\_\_\_\_

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13. What action should be taken if you experience partial power loss? \_\_\_\_\_

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14. Describe what action to take in the event of an electrical fire in flight. \_\_\_\_\_

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15. Describe the "Engine Fire During Start" checklist. \_\_\_\_\_

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### **Normal Procedures**

16. List the procedure to follow for a normal engine start. \_\_\_\_\_

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17. Explain the procedure for starting a cold engine? Hot engine? \_\_\_\_\_

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18. When do we lean the mixture? Why? Describe the procedure(s). \_\_\_\_\_

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19. When should the carburetor heat be used? Why? \_\_\_\_\_

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20. Explain the procedures and list the appropriate speeds for a short field takeoff and landing. \_\_\_\_\_

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21. Explain the proper positions for the flight controls in the following ground situations.

Engine start: \_\_\_\_\_

Headwind taxi: \_\_\_\_\_

Tailwind taxi: \_\_\_\_\_

Crosswind taxi: \_\_\_\_\_

Left quartering headwind taxi: \_\_\_\_\_

Right quartering headwind taxi: \_\_\_\_\_

Left quartering tailwind taxi: \_\_\_\_\_

Right quartering tailwind taxi: \_\_\_\_\_

### **Performance**

22. Given: Departing KRYYY with a temperature of 15°C at maximum takeoff weight. Determine the takeoff distance over a 50 foot obstacle using the SHORT FIELD T/O technique. \_\_\_\_\_

\_\_\_\_\_

23. What is the endurance at 5,000 feet and standard temperature at 54% power? \_\_\_\_\_

\_\_\_\_\_

24. What is the maximum crosswind component for the airplane? \_\_\_\_\_

\_\_\_\_\_

## Weight and Balance

25. What is maximum takeoff weight? \_\_\_\_\_

26. Determine weight and balance

	Weight	Arm	Moment
BEW	_____	_____	_____
Pilot & Pass	_____	_____	_____
Rear Occupants	_____	_____	_____
Baggage A	_____	_____	_____
Baggage B	_____	_____	_____
Zero Fuel Weight	_____	_____	_____
Fuel @ 6 LBS/GAL	_____	_____	_____
Ramp Weight	_____	_____	_____
Taxi Fuel Allowance	_____	_____	_____
Takeoff Weight	_____	_____	_____
CG Location	_____	_____	_____

27. Is the aircraft within weight and CG limits? If not, show how we can be with limits. \_\_\_\_\_

\_\_\_\_\_

28. What aircraft categories are the aircraft certified under? \_\_\_\_\_

\_\_\_\_\_

29. What is the maximum allowable weight in baggage compartment? \_\_\_\_\_

\_\_\_\_\_

## Systems

30. What type of engine does the aircraft have? (*specify make and model*) \_\_\_\_\_

\_\_\_\_\_

31. How many engine driven magnetos does the plane have? What are they used for? \_\_\_\_\_

\_\_\_\_\_

32. What is the total fuel capacity? What is the total usable? \_\_\_\_\_

\_\_\_\_\_

33. What types of fuels are approved for the aircraft? \_\_\_\_\_

\_\_\_\_\_

34. How many fuel drains does the fuel system have? Where are they located? \_\_\_\_\_

\_\_\_\_\_

35. How many positions does the fuel selector have? What are they? \_\_\_\_\_

\_\_\_\_\_

36. What is the tire pressure for the tailwheel? \_\_\_\_\_

\_\_\_\_\_

37. What is the total oil capacity? What is the minimum capacity? \_\_\_\_\_

\_\_\_\_\_

38. Does the oil levels ever fluctuate? What does the aircraft normally operate at? \_\_\_\_\_

\_\_\_\_\_

39. Describe the electrical system. \_\_\_\_\_

\_\_\_\_\_

40. What is the voltage of the battery? Where is the battery located in the aircraft? \_\_\_\_\_

\_\_\_\_\_

41. What has happened when the low voltage light illuminates? \_\_\_\_\_

\_\_\_\_\_

42. How can you attempt to remedy a low or over-voltage condition? \_\_\_\_\_

\_\_\_\_\_

43. Does the aircraft have an alternate static source? If so, where is it, and how do you activate it? \_\_\_\_\_

\_\_\_\_\_

44. Describe the vacuum system for this airplane. \_\_\_\_\_

\_\_\_\_\_

45. Describe the flaps. How are they used? What are the settings? What are the flap limitations? \_\_\_\_\_

\_\_\_\_\_

46. What do we use for the control lock? How? \_\_\_\_\_

\_\_\_\_\_

### **Stall and Spin Awareness**

47. What is a stall? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

48. Describe the procedures for a recovery from the appropriate stall.

Power-Off: \_\_\_\_\_

\_\_\_\_\_

Power-On: \_\_\_\_\_

\_\_\_\_\_

49. What is an accelerated stall? How do you recover? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

50. What is a spin? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

51. What is the proper spin recovery procedure? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

52. Can we spin this airplane? If no, explain why. \_\_\_\_\_

\_\_\_\_\_

53. Explain what will happen to an aircraft in a stall/spin situation if the CG is too far aft? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

