

MAFC ~ **Cessna 152 II** - Aircraft Check-Out, Rev. A

Pilot's Name \_\_\_\_\_  
Medical Class \_\_\_\_\_ Medical Date \_\_\_\_\_  
Certificate number \_\_\_\_\_ Class \_\_\_\_\_  
Ratings \_\_\_\_\_  
Flying time: total \_\_\_\_\_ last 90 days \_\_\_\_\_  
Aircraft: Cessna 152, Model \_\_\_\_\_, Year \_\_\_\_\_

Note: This is an open-book quiz. All pilots must have their own "Pilot's Operating Manual" covering the specific aircraft being checked out in. Some questions will require other sources of information that the pilot will have to reference, or be knowledgeable in. For answers requiring numbers, please use the units corresponding to the units used on the specific aircraft's flight instrument unless otherwise indicated.

1. What is the power off stalling speed for: flaps up \_\_\_\_\_; flaps down \_\_\_\_\_?
2. What is the maximum weight for takeoff and landing? \_\_\_\_\_
3. What is the Standard Empty Weight for the C-152? \_\_\_\_\_
4. What is the maximum useful load for the C-152? \_\_\_\_\_
5. What is the maximum allowable weight for baggage compartment area 1 & area 2? \_\_\_\_\_
6. What is the maximum combined weight capacity for baggage areas 1 & 2? \_\_\_\_\_
7. What is the horse-power rating and maximum engine speed? \_\_\_\_\_, \_\_\_\_\_
8. What are the approved fuel grades and their colors? \_\_\_\_\_, \_\_\_\_\_; \_\_\_\_\_, \_\_\_\_\_
9. What is the total fuel capacity for standard tanks, total useable capacity \_\_\_\_\_, unusable fuel \_\_\_\_\_?
10. What is the oil sump capacity? \_\_\_\_\_
11. V-speeds in KIAS                      Description of V-speed  
Vne = \_\_\_\_\_ kts                      Do not exceed this speed in any operation.  
Vno = \_\_\_\_\_ kts                      Do not exceed this speed except in smooth air and then only with caution.  
Va = \_\_\_\_\_ kts                      At gross weight, do not make full or abrupt control movements above this speed.  
Vfe = \_\_\_\_\_ kts                      Do not exceed this speed with the flaps down.
12. What is the one speed that is not found on the airspeed indicator?

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- \_\_\_\_\_
13. What aerobatic maneuvers are permitted? \_\_\_\_\_
14. What is the best glide speed? \_\_\_\_\_
15. If low voltage light illuminates during flight, what is the procedure to correct it?  
\_\_\_\_\_  
\_\_\_\_\_
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 airspeed range for a normal climb out? \_\_\_\_\_
19. What is the short field takeoff flap setting and airspeed? \_\_\_\_\_, \_\_\_\_\_
20. What is the soft field takeoff flap setting? \_\_\_\_\_
21. What is the normal landing approach airspeed range for:  
flaps up \_\_\_\_\_? flaps at 30 deg. \_\_\_\_\_? short field \_\_\_\_\_?
22. What is the maximum demonstrated crosswind velocity? \_\_\_\_\_
23. What is the range and endurance for the C-152 II at 75% power and at 8000 feet? \_\_\_\_\_, \_\_\_\_\_
24. Is maximum (miles/gallon) obtained at high or low power settings? \_\_\_\_\_
25. What is the engine make & model? \_\_\_\_\_, \_\_\_\_\_
26. List below your personal minimums for flight and discuss them with your instructor. These minimums should include the items below but may also include additional parameters for flight.

Ceiling & Visibility \_\_\_\_\_, \_\_\_\_\_

Surface Winds & Crosswind \_\_\_\_\_, \_\_\_\_\_

Winds Aloft & Temperature \_\_\_\_\_, \_\_\_\_\_

Current Weather & Forecast \_\_\_\_\_

The remaining questions are based on the following takeoff scenario:  
Pilot: 200 lbs.; Copilot: 200 lbs.; Baggage 20 lbs.  
Wind: calm.; Temperature: 80 F.; Altimeter setting: 29.92.  
Departing from: Spring Hill Airport (70N) / Sterling PA.

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Mission requirement: maximum range - VFR.

- 27. Optimum amount of fuel on board: \_\_\_\_\_ gal.
- 28. Take-off flap setting: \_\_\_\_\_ degrees.
- 29. Expected takeoff ground roll: \_\_\_\_\_ feet, at which point you should have an airspeed of at least \_\_\_\_\_ Kias.
- 30. Procedure in case you have not achieved that speed by that point:  
\_\_\_\_\_
- 31. Approximate margin for error in that case: \_\_\_\_\_ feet of runway length, which corresponds to \_\_\_\_\_ seconds of reaction time.
- 32. In the case where you do get proper takeoff performance, the distance required to clear a 50-foot obstacle is: \_\_\_\_\_ feet.
- 33. Maximum distance of flight assuming a wind of 0 kts/hr and a cruise altitude of 4500ft and 65% power. \_\_\_\_\_

Practical and Oral Examination

- \_\_\_ Knowledge Of Pilot's Handbook
- \_\_\_ Knowledge Of Operating Limitations
- \_\_\_ Knowledge Of Fuel, Electrical, And Hydraulic Systems
- \_\_\_ Knowledge Of Weight And Balance Computations
- \_\_\_ Knowledge Of Emergency Procedures
- \_\_\_ Knowledge Of Radio Procedures And Phraseology
- \_\_\_ Knowledge Of Radio Equipment
- \_\_\_ Knowledge Of Federal Aviation Regulation Part 91
- \_\_\_ Knowledge Of Local Flying Regulations
- \_\_\_ Knowledge Of Weather Facilities & Weather Reports
- \_\_\_ Practice Area & Airports To Be Used

Checked Out For:

- Local Flights \_\_\_\_\_
- Cross Country Flight \_\_\_\_\_
- Night Flight \_\_\_\_\_
- IFR Flight Other \_\_\_\_\_

Check-Out completed by:

Instructor \_\_\_\_\_  
Date \_\_\_\_\_