

Lanier Flight Center

Lee Gilmer Memorial Airport
1115 Aviation Way,
Gainesville, GA 30501
678-989-2395
Fax: 678-989-2396



Lanier Flight Center 172-S Checkout Questionnaire

Name _____ Date _____
Certificate and Rating _____ Certificate Number _____
Total Time _____ Instructor (if applicable) _____

Systems

1. What type of engine does the aircraft have? (specify make and model)
2. What is the engine's maximum rated horsepower and RPM?
3. What is the total fuel capacity? What is the total usable?
4. How many fuel drains are there on the following? Left wing _____ Right wing _____
5. How many fuel drains are there on the underside of the forward fuselage?

6. The fuel selector has _____ positions. Fuel is shut-off with the _____
7. How many engine driven vacuum pumps does the airplane have?
8. What types of fuel are approved?

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9. What is the total oil capacity? What is the minimum capacity for normal flight operations?
10. Describe the electrical system.
11. What is the voltage of the battery? Where is the battery located in the aircraft?
12. What has happened when the low voltage light illuminates?
13. How can the pilot attempt to remedy a low or over-voltage condition?
14. Does the aircraft have an alternate static source? If so, where is it, and how do you activate it?
15. Describe the flaps. How are they used? What are the settings? At what speed do you lower the flaps? What are the limitations?

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Normal Procedures

1. List the procedures to be followed for a normal engine start.
2. Explain the procedure for starting a hot engine.
3. Prior to takeoff, in what position should the fuel pump switch be? _____
4. When do we lean the mixture? Describe the procedure.
5. What is the normal landing speed? Short field?

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Emergency Procedures

1. Describe the emergency checklist to follow when the engine has failed in flight.
2. What actions should be taken if there is smoke in the cockpit?
3. What should we do if we experience low or high oil pressure?
4. What action should be taken if you experience partial power loss?
5. Describe the procedure to use for a forced landing.
6. What should be done if the ammeter indicates excessive discharge or overcharge during flight?

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Performance

1. Given: 37 degrees C, 4 kt tailwind, P/A 1,500 paved dry runway and max weight. Determine the takeoff distance over a 50 obstacle using the SHORT FIELD t/o technique.
2. What is the endurance at 8,000 and standard temp at 65% power?

Weight and Balance

1. What is max takeoff weight?
2. Determine how much fuel can be carried without exceeding max takeoff weight:

	Weight	Arm	Moment
BEW	1718.2	41.072	70569.91
Pilot & Pass	400		
Rear Occupants	200		
Baggage 1	20		
Baggage 2	0		
Zero Fuel Weight			
Fuel @ 6 lbs/gal			
Ramp Weight			
Taxi Fuel Allowance			
Takeoff Weight			
CG Location			

3. Is the aircraft within CG limits? If not, show how we can be in CG limits.

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4. What aircraft category(ies) is the aircraft certified under?

5. What is the maximum allowable weight in the baggage area 1? 2?

Stall and Spin Awareness

1. What is a stall?

2. How do you recover from a stall (Power-Off/Power-On)?

Power-Off: _____

Power-On: _____

3. What has to happen first before an airplane enters a spin?

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4. What is the SPIN RECOVERY procedure for this airplane?

5. Why is it important to recover from a spin both quickly and smoothly?

Airspeeds

1. What are the following V Speeds in KIAS?
V_r _____
V_y _____
V_x _____
V_a _____
V_{so} _____
V_s _____
V_{fe} _____
V_{no} _____
V_{ne} _____
Best Glide Speed Max Weight _____