



## AIRCRAFT CHECKOUT

Pilot \_\_\_\_\_

Date \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Aircraft Type \_\_\_\_\_

Registration N \_\_\_\_\_

### Fuel System:

1. How many fuel tanks are there? \_\_\_\_\_
2. What is the capacity of each tank? \_\_\_\_\_
3. What is the total usable fuel capacity? \_\_\_\_\_
4. What is the correct fuel grade? \_\_\_\_\_ Color? \_\_\_\_\_
5. Where are the drains located? \_\_\_\_\_
6. When should a fuel sample be examined? \_\_\_\_\_

### Oil System:

1. What is the minimum oil level? \_\_\_\_\_ Max level? \_\_\_\_\_ Normal Level? \_\_\_\_\_
2. What is the recommended oil viscosity for all temperatures? \_\_\_\_\_

### Weight and Balance:

1. What is the aircraft maximum allowable gross weight? \_\_\_\_\_
2. What is the standard empty weight of the aircraft to be flown? \_\_\_\_\_
3. What is the basic empty weight of the aircraft to be flown? \_\_\_\_\_
4. What is the weight of full fuel? \_\_\_\_\_
5. What is the aircraft useful load? \_\_\_\_\_
6. What is the aircraft payload? \_\_\_\_\_
7. Determine if the aircraft is within the weight and balance limitations given the following conditions:
  - a) Full fuel
  - b) Front seats = 340 lbs. total
  - c) Baggage = 20 lbs.
  - d) For Aircraft with rear seats = 150 lbs. total.Takeoff Weight \_\_\_\_\_ CG \_\_\_\_\_ Within Limits ? Yes No

**Airspeeds:** Use indicated airspeeds

1. Stall speed in the landing configuration ( $V_{so}$ )? \_\_\_\_\_
2. Never exceed speed ( $V_{ne}$ )? \_\_\_\_\_
3. Max structural cruising speed ( $V_{no}$ )? \_\_\_\_\_
4. Maneuvering speed ( $V_a$ ) at max gross weight? \_\_\_\_\_ **increases/decreases** as weight decreases?
5. Max flap extended speed ( $V_{fe}$ )? \_\_\_\_\_
6. Max gear extension speed ( $V_{le}$ )? \_\_\_\_\_ (aircraft with retractable gear only)
7. Max gear retraction speed? \_\_\_\_\_ (aircraft with retractable gear only)
8. Best angle of climb speed ( $V_x$ ) at sea level? \_\_\_\_\_  $V_x$  **increases/decreases** with altitude
9. Best rate of climb speed ( $V_y$ ) at sea level? \_\_\_\_\_  $V_y$  **increases/decreases** with altitude
10. Demonstrated max crosswind component? \_\_\_\_\_
11. Normal final approach airspeed? \_\_\_\_\_ Aircraft configuration? \_\_\_\_\_
12. Short field final approach airspeed? \_\_\_\_\_ Aircraft configuration? \_\_\_\_\_
13. Best glide speed gear down? \_\_\_\_\_; gear up? \_\_\_\_\_

**Emergency procedures:**

1. For aircraft with retractable gear, describe the emergency gear extension procedure.
2. For aircraft with carburetor, describe how you would detect carb ice, and what action should be taken to remove/prevent carb ice?
3. How would you detect an alternator failure, and what action would you take?
4. What actions would you take if you experienced an engine failure during flight?
5. What actions would you take if you noticed high oil temperature?
6. What actions would you take if you noticed low oil pressure while in flight?
7. Describe the “go around” procedure.

**Aircraft Performance:**

1. What is the power setting, fuel consumption and true airspeed for cruising at 75% power at 6,500 feet with standard temperature?

MP \_\_\_\_\_ RPM \_\_\_\_\_ Fuel consumption \_\_\_\_\_ TAS \_\_\_\_\_

2. What is the takeoff distance to clear a 50' obstacle when using maximum performance procedures with the aircraft at gross weight into a 6 knot headwind with the following conditions:

a) Pressure altitude = Sea level, Temperature = Standard ? \_\_\_\_\_

b) Pressure altitude = 5,000', Temperature = 90 deg F? \_\_\_\_\_

3. Describe how you can determine pressure altitude.

Reviewed by: \_\_\_\_\_ Make copy for customer