

Aircraft Checkout Form

Aircraft Make: _____ **Model:** _____ **Year:** _____

This aircraft checkout form is for both complex and non-complex single engine aircraft.

Pilot Information

Name _____ Date _____
Address _____
Home / Work / Mobile Phone Numbers _____
Certificates & Ratings _____
Medical Certificate Class _____ Expiration Date _____
Last Flight Review _____ Expiration Date _____
Airplane Single Engine Land flight time last 90 days _____
Total IFR time (actual & simulated) in last 6 months _____ Number of Approaches _____
Insurance Requirements: Total Experience _____ Recent Experience _____

Aircraft Operating Speeds

Normal Rotation Speed (Vr)	Stall Speed - Landing Configuration (Vso)
Best Rate of Climb Speed (Vy)	Stall Speed - Clean, Gear-up (Vs)
Best Angle of Climb Speed (Vx)	Stall Speed - 60 Degree Bank, Full Flaps
Normal Climb-out Speed	Stall Speed - 60 Degree Bank, 0 flaps
Normal Cruise Speed	Design Maneuvering Speed (Va)
Maximum Flap Extended Speed (Vfe)	Never-exceed Speed (Vne)
Maximum Landing Gear Operating Speed (Vlo)	Maximum Structural Cruising Speed (Vno)
Maximum Landing Gear Extended Speed (Vle)	Best Glide Speed (Vg)

What is the maximum demonstrated crosswind component for this aircraft? _____
Is this an operating limitation? Yes _____ No _____
Traffic pattern speeds: Downwind _____ Base _____ Final _____ Landing _____

General Aircraft Information

Type, Make, & Model of Engine _____ Power Output _____
Type of Propeller: Fixed Pitch or Variable Pitch _____
Fuel System: Carburetor or Fuel Injection _____
Describe use of Carburetor Heat or Alternate Air _____
Total Gallons of Fuel _____ Useable Fuel _____ Type & Color _____
Number, Location, & Capacity of Fuel Tanks _____
Number, Location, & Draining of Fuel Sumps _____
Oil Type & Viscosity _____ Minimum # Quarts _____ Maximum # Quarts _____
Electrical System Voltage _____ Alternator Output Amps _____
Location of Circuit Breakers for Landing Gear, Flaps, Landing Lights, and Alternator _____
Landing Gear: Fixed, Manual, Hydraulic, or Electric _____
If Retractable, Describe Emergency Gear Extension _____
Describe Heater/Defroster Operation _____

Aircraft Weight & Balance Limitations

Maximum Gross Weight _____ Basic Empty Weight _____
Useful Load _____ Useful Load with Full Fuel _____
Maximum Weight In Baggage Compartment(s) _____

Exercise: Complete multiple Weight & Balance calculations using the attached W&B Worksheets.

Performance Planning

How many pounds of baggage can this aircraft carry with full fuel and each seat occupied by a 190 pound passenger? _____

Solve the following weight and balance problem for a maximum range flight with yourself and a 190 pound passenger in each remaining seat.

What is the gross weight? _____

Where is the center of gravity? _____

Is the flight within the weight and balance envelope? _____

How much fuel can you carry with no baggage? _____

How long can you fly with that amount of fuel? _____

With full fuel, allowing for a 45 minute fuel reserve, what is the maximum fuel endurance at 65% power at 5,000', standard conditions, lean mixture, zero wind, 2,500 RPM and gross weight? _____

What is the TAS at 5,000' and 65% power? _____

What RPM and Manifold Pressure combination yields 75% power at 4,000' PA at standard conditions?

RPM _____ Manifold Pressure _____

What is the fuel flow per hour at 75% at 4,000' with standard conditions? _____

What takeoff distance is required to clear a 50' obstacle at gross weight at a pressure altitude of 6,000' and 75 degrees Fahrenheit? (Assume no wind and a hard surface runway.) _____

What would the answer be if the takeoff was made at a sea-level pressure altitude grass surface runway?

Would high humidity increase or decrease this distance? _____

Why? _____

For a typical flight with full fuel, how long do you plan to fly before stopping for fuel? _____

Use the following data to answer the following questions:

OAT 90 degrees; Press Alt 4,000' Full gross weight; Winds 090 degrees at 10 Kts:

What is the takeoff distance to clear a 50 foot obstacle? _____

What is the landing distance to clear a 50 foot obstacle? _____

Aircraft Checkout Completed

The above named pilot has satisfactorily completed aircraft checkout on _____

CFI Name _____

Certificate # _____

CFI Signature _____

Expiration Date _____

The above named pilot has received an aircraft maintenance briefing on _____

M/O Name _____

M/O Signature _____

Aircraft Weight & Balance Worksheet

Aircraft: _____ N: _____ Year: _____ S/N: _____

Max Weight: _____ Empty Weight: _____ Useful Load: _____

Weight & Balance Calculations

Item	Weight	Arm - CG	Moment
Basic Empty Weight			
Fuel – Station 1			
Fuel – Station 2			
Passengers – Seats 1 & 2			
Passengers – Seats 3 & 4			
Passengers – Seats 5 & 6			
Baggage – Station 1			
Baggage – Station 2			
Total			
Weight & CG Limits For This Aircraft			

Weight & Balance Calculations

Item	Weight	Arm - CG	Moment
Basic Empty Weight			
Fuel – Station 1			
Fuel – Station 2			
Passengers – Seats 1 & 2			
Passengers – Seats 3 & 4			
Passengers – Seats 5 & 6			
Baggage – Station 1			
Baggage – Station 2			
Total			
Weight & CG Limits For This Aircraft			

Weight & Balance Calculations

Item	Weight	Arm - CG	Moment
Basic Empty Weight			
Fuel – Station 1			
Fuel – Station 2			
Passengers – Seats 1 & 2			
Passengers – Seats 3 & 4			
Passengers – Seats 5 & 6			
Baggage – Station 1			
Baggage – Station 2			
Total			
Weight & CG Limits For This Aircraft			