



Aircraft Checkout Written Test: C-172N (1355F)

CHI Aerospace (May 2021)

Pilot Name: _____ Date: _____

Instructor: _____

I - Airspeeds (KIAS)

VS0 _____ VS1 _____ VR _____ VX _____ VY _____

VA @2300# _____ VA @1600# _____ VFE _____

VNO _____ VNE _____

Short Field VR: _____ Max Allowable Short Field T/O Flap setting: _____

Cruise Climb Speed: _____

Approach Speed (Flaps Full) : _____ Short Field Approach Speed (Flaps Full): _____

Max cross wind component : _____ Max headwind component : _____

II - Fuel and Oil

Total Fuel: _____ Gallons _____ lbs

Total Usable Fuel: _____ Gallons _____ lbs

Total Unusable Fuel: _____ Gallons _____ lbs

What are the approved fuel grades for the aircraft? _____

How many fuel sumps are there on the aircraft? _____

What is the max fuel burn in GPH? _____

What are the minimum reserve fuel requirements for day and night? _____

VFR: _____

IFR: _____



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How would you monitor your fuel burn? _____

The engine has an oil capacity of _____ quarts total, _____ quarts in sump, and _____ quarts are considered minimum for normal flight. Fill to _____ quarts for extended flights.

Minimum oil pressure _____ psi; Normal: _____ psi; Maximum oil pressure is _____ psi.

What type of oil does this aircraft use? _____

III - Weight and Balance

Basic Empty Weight: _____ lbs

Useful Load: _____ lbs

Maximum Ramp Weight: _____ lbs

Maximum Take-Off Weight (MTOW): _____ lbs

Maximum Baggage Weight; Area 1 _____ lbs, Area 2 _____ lbs, Area 1+2 combined _____ lbs

Weight of Oil: _____ lbs per quart

Max Forward CG at MTOW: _____ inches

Max Aft CG at MTOW: _____ inches

IV - Aircraft Systems

What type of propeller does this aircraft have? Number of blades? Type?

What is the cold start procedure for this aircraft?

What is the warm start procedure for this aircraft?



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What is the flooded start procedure?

How is fuel supplied to the engine?

Does the airplane have an electric fuel pump?

Is the aircraft carbureted or fuel injected?

What is the proper procedure for leaning the mixture at cruise using T.I.T?

After performing your cruise checklist and leaning the aircraft, approximately what should your Fuel Burn be?

Pressure Altitude: 6,000ft

Temp: Standard

RPM: 2500

Fuel Burn: _____gph

Describe the engine. Make, model, cylinders, etc...

What is the engine horsepower and at what RPM? _____

Electrical system _____ volt; Alternator current is _____ amps; Battery voltage is _____ volts.

How many batteries does this aircraft have? _____

Where is the Main Battery located?



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How is the alternator checked during the engine run-up before takeoff?

What would alert you to an alternator failure?

Where is the static port located? Is there more than one? If so, how many and where are they?

Where is the alternate static source located?

What type of landing gear system is on the aircraft?

What type of flaps does the aircraft have?

Flap range approved for takeoff:

Flap setting for short-field takeoff:



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V - Emergency Procedures

What is the correct spin recovery procedure for the aircraft?

What is the proper procedure for remedying engine roughness and/or power loss in flight?

Carb Icing: _____

Spark Plug Foul: _____

Magneto Malfunction: _____

Low Oil Pressure: _____

What is the emergency procedure for engine loss during cruise flight?

What are the corrective actions taken when there is an excessive rate of charge on the ammeter?

What are the corrective actions taken when there is an excessive rate of discharge on the ammeter?

IF LOW VOLTS REMAIN:

What action should the pilot take in the event of an engine fire during engine start?

What action should the pilot take in the event of an engine fire during flight?

What is the procedure for a balked landing (go-around)?



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VI - Performance & Weight and Balance Computations

CFI weight: _____ lbs

Pilot's weight: _____ lbs

Fuel: _____ gallons = _____ lbs

Baggage: _____ lbs

Weight and Balance Computation:

Total weight: _____ lbs

Total moment: _____ in-lbs

Where is the center of gravity? _____ Does it fall within the CG envelope? _____

Using the following conditions, compute the takeoff and landing distance over a 50 ft obstacle:

Today's temperature: _____ °C

Surface wind: _____ degrees at _____ knots

Altimeter setting: _____ in Hg

Pressure altitude: _____ feet

Takeoff distance over a 50' obstacle: _____ feet

Landing Distance over a 50' obstacle: _____ feet

Per CHI policy, what are the runway minimums for this aircraft?

Length: _____

Surface: _____

TEST CORRECTED TO 100%

Instructor Signature: _____

Pilot Signature: _____

Date: _____