



Aircraft Checkout Written Test: C-T182T (5195U)

CHI Aerospace (Sept 2021)

Pilot Name: _____ Date: _____

Instructor: _____

I - Airspeeds (KIAS)

VS0 _____ VS1 _____ VR _____ VX _____ VY _____ VA _____

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 : _____

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?

What is the max fuel burn in GPH?



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

VFR: _____

IFR: _____

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.

Oil fill for extended flights ____

Minimum oil pressure _____ psi;

Maximum oil pressure is _____ psi.

Normal oil _____ 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: _____ lbs

Max Forward CG at MTOW: _____ inches

Max Aft CG at MTOW: _____ inches



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IV - Aircraft Systems

What type of propeller does this aircraft have?

What is the warm start procedure for this aircraft?

What is the cold start procedure?

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?

How does the turbocharging system work on this aircraft?

What is the max Turbine Inlet Temperature (T.I.T) on this aircraft?

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



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

Pressure Altitude: 8,000ft Temp: -1°C (Standard)

RPM: 2300 MP: 24" Fuel Burn: _____ gph

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

What is the engine horsepower and at what RPM?

Alternator output is _____ amps.

Battery voltage is _____ volts.

How many batteries does this aircraft have?

Where is the Main Battery located?

Where is the standby battery located?

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

What would alert you to an alternator failure?

If the alternator were to fail, when would the Standby Battery begin supplying power to the aircraft?

How long will the Standby Battery last before complete electrical failure?



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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 Manifold Pressure setting should you use for takeoff?

What type of flaps does the aircraft have?

Flap range approved for takeoff:

Flap setting for short-field takeoff:

V - Emergency Procedures

What is the correct spin recovery procedure for the aircraft?

What is the procedure for remedying engine roughness?

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



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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?

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)?

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? _____



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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 and CFI # : _____

Pilot Signature: _____ Date: _____