Westwind School of Aeronautics

Aircraft Check Out Written Test
Must be on File Prior to Solo Flight

Name: _____ Date: _____

Aircraft Type: _____

Airspeeds (KIAS)

Vr _____	Va (heavy) _____	Vlo (extend) _____
Vx _____	Va (light) _____	Vlo (retract) _____
Vy _____	Best Glide _____	Vle (extended) _____
Vso _____	Vfe (full flaps) _____	Vno _____
Vs _____	Vne _____	

Normal Approach Speed (full flaps) _____ (no flaps) _____

Short Field Approach Speed _____ flap setting _____

Short Field Take Off Speed _____ flap setting _____

If your normal indicated approach speed at Deer Valley (1475 ft) is 65 knots, will you use the same, higher, or lower approach speed at Flagstaff (7011 ft)? _____

Fuel and Oil

Total Fuel (gallons) _____ Usable Fuel (gallons) _____
What are the approved fuel grades and colors? _____
How many fuel drains are on the aircraft? _____
Oil capacity _____ Minimum oil you would fly with _____
If you need to buy oil, what type and weight? _____

Weight and Balance (lbs)

Maximum Ramp Weight _____
Maximum Take Off Weight _____
Useful Load (specific to aircraft) _____
Maximum Landing Weight _____
Maximum Weight in Baggage Compartment _____

Performance

Compute the density altitude for Flagstaff (7011ft) with an outside temperature of 85 degrees F and an altimeter setting of 29.92: _____

Find the power setting, true airspeed, and fuel burn for a typical cruise at 8,000 ft, 20 degrees above standard and 65% power: _____

Assuming the above typical cruise, how many hours could you fly if you started with full tanks? _____

Systems

How is fuel supplied to the engine? _____

What is the horsepower of the engine? _____ At what power setting? _____

Describe the engine: _____
_____

Does the aircraft have a constant speed propeller? If so, how do you check for proper operation of the governor? What are the MP/RPM configurations to avoid? _____
_____

What kind of battery and alternator does the aircraft have? _____
Does the aircraft have a retractable landing gear system? If so, how does it work? _____
_____

Does the aircraft have cowl flaps? If so, what is the proper operation of them? _____
_____

Does the aircraft have a turbo charger? If so, what is the proper operation under the following conditions:

Take Off: _____
Power Changes: _____
Let Downs: _____
Landings: _____

Does the aircraft have an electrical fuel pump? If so, when should it be used? _____
_____

What is the proper procedure to set the mixture? _____
_____

Emergency Procedures

What is the proper procedure for engine roughness while in flight? _____
_____

What is the procedure for engine failure in flight? _____
_____

What is the procedure for an electrical fire? _____
_____

What is the procedure for engine fire while starting? _____
_____

If the aircraft has retractable gear, describe in detail the trouble shooting procedure if it fails to extend. List independent ways to verify gear down and locked if there is not a green light indication. What is the emergency gear extension procedure? _____
_____
_____
_____
_____

What is the proper procedure for an excessive rate of charge? What about a low voltage indication? _____
_____
_____

Westwind Flight Instructor Signoff: _____ Date: _____