

# Shoreline Flying Club

## Single Engine Airplane Questionnaire

Aircraft Make/Model/Year: \_\_\_\_\_ Instructor: \_\_\_\_\_  
 Name: \_\_\_\_\_ Date: \_\_\_\_\_

**Airspeeds:** (circle one each) Knots / MPH | indicated / calibrated

Normal Operating:	Limitations:	
Vr _____	Vs0 _____	Max window open _____
Vx _____	Vs _____	Service Ceiling _____
Vy _____	Va _____	Max crosswind _____
Cruise Climb _____	Vfe _____	
Vapp _____	Vlo _____	
Short Field Approach _____	Vle _____	
Go Around _____	Vno _____	
	Vne _____	
Best Glide _____		

**Engine**

Manufacturer \_\_\_\_\_ Model \_\_\_\_\_  
 Horsepower \_\_\_\_\_ Type \_\_\_\_\_

**Oil**

Type/Grade \_\_\_\_\_ Minimum for operation \_\_\_\_\_  
 Minimum for takeoff \_\_\_\_\_ Maximum \_\_\_\_\_

**Fuel**

Grade \_\_\_\_\_ Color \_\_\_\_\_  
 Max Capacity (total) \_\_\_\_\_ Capacity at tabs/ collars (total) \_\_\_\_\_  
 Max Usable \_\_\_\_\_ Usable at tabs/collars \_\_\_\_\_

**Weight and Balance** per current data for **N-Number:** \_\_\_\_\_

Basic Empty Weight _____	Max Ramp Weight _____
Maximum gross weight _____	Max Takeoff Weight _____
Useful Load _____	Max Landing Weight _____

<u>Item</u>	<u>Weight</u>	<u>Arm</u>	<u>Moment</u>
BEW	_____	_____	_____
Front Seats	_____	_____	_____
Rear Seats	_____	_____	_____
Baggage	_____	_____	_____
Fuel	_____	_____	_____
Total	_____	_____	_____

CG in / out \_\_\_\_\_ Correction \_\_\_\_\_  
 CG position with 30 minutes fuel remaining \_\_\_\_\_

**Aircraft Systems**

Number and location of fuel tanks \_\_\_\_\_  
Number and location of fuel sumps \_\_\_\_\_

Mag check at \_\_\_\_\_ RPM, max drop \_\_\_\_\_, max difference between mags \_\_\_\_\_  
Minimum / Maximum RPM and power for takeoff \_\_\_\_\_  
Baggage compartment locations / limitations \_\_\_\_\_

Flap setting for:  
Normal takeoff \_\_\_\_\_ Short field takeoff \_\_\_\_\_ Soft field takeoff \_\_\_\_\_

Recommended use of fuel pump \_\_\_\_\_  
Recommended leaning procedure \_\_\_\_\_  
Recommended carb heat / alternate air \_\_\_\_\_

**Emergency / Abnormal procedures**

Engine roughness during magneto check \_\_\_\_\_  
Engine failure on takeoff \_\_\_\_\_  
Engine failure during cruise or descent \_\_\_\_\_

Fire during engine start \_\_\_\_\_  
Engine fire during flight \_\_\_\_\_  
Electrical fire during flight \_\_\_\_\_  
Low voltage light illuminates \_\_\_\_\_  
Engine runs rough during flight \_\_\_\_\_

**Aircraft Performance**

Max. Rate of Climb at sea level pressure altitude, 15° C, max gross weight \_\_\_\_\_  
Max. Rate of Climb at 6000 pressure altitude, 25° C, max gross weight \_\_\_\_\_  
Max. TAS at 6000 feet, 75% power, 10° C above standard temperature \_\_\_\_\_  
Endurance at 75% power, 6000 MSL with climb from sea level, 45 minute reserve \_\_\_\_\_

Sea level pressure altitude, max gross weight, no wind, 15° C:  
Takeoff distance ground roll \_\_\_\_\_ over 50' obstacle \_\_\_\_\_  
Landing distance ground roll \_\_\_\_\_ over 50' obstacle \_\_\_\_\_

6264 pressure altitude, max gross weight, runway 18, winds 220 @ 12 kt, 25° C:  
Takeoff distance ground roll \_\_\_\_\_ over 50' obstacle \_\_\_\_\_  
Landing distance ground roll \_\_\_\_\_ over 50' obstacle \_\_\_\_\_

Landing runway 31 with winds at 270 @ 20, will the maximum demonstrated crosswind component be exceeded? \_\_\_\_\_