



Dynasty Aviation Pre-Solo Knowledge

Aircraft Checkout Worksheet

Sling LSA / RV12 (Circle One)

Instructions: Answer each question in the space provided, using the current FAR/AIM, the Chart Supplement, the Sectional Chart and the Pilot's Operating Handbook, specify which aircraft model when answering.

1. **Define** and list the following airspeed limitations.

V_{s1} -

V_{so} -

V_x -

V_y -

V_r -

V_a -

V_{fe} -

V_{no} -

V_{ne} -

V_g -

2. List the procedures to respond to an in-flight engine failure.

3. What is the maximum gross weight and the limitations of a Light-Sport Aircraft (LSA)?

4. What is the proper avoidance procedure when the two aircraft are approaching head-on? (91.113).

5. List the proper priority of the aircrafts "Right-of-Way" rule with the acronym EBGAAR (91.113).

E =

B =

G =

A =

A =

R =

6. List the procedures for the loss of communication radio in the traffic pattern, and also when coming back from the practice area near Holly Lake.

7. What is the maximum demonstrated crosswind component?

8. What are the 50 ft obstacle takeoff and landing distances?

9. Briefly describe the engine system. (Model, Horsepower, Fuel Injections, Cooling, Gearbox, Oil System etc.)

10. What is the ECU and its function? (Rotax 912iS Only)

11. What is the function of the ECU BKUP switch and when should it be turned on?
(Rotax 912iS Only)

12. Briefly describe the electrical systems.

13. How will a pilot identify an Alternator Failure? What will be the plan of action?

14. What is the definition of careless or reckless operation? (91.13)
15. You may not fly as the Pilot in Command of a civil aircraft within _____ hours after consuming any alcoholic beverages, or while having _____ % blood alcohol content. (91.17)
16. What are the basic VFR weather minimums for class B / C / D / E / G above and below 1200 AGL during the day and night? (91.155)
17. When should the fuel be drained from the airplane and what is the reason?
18. What is the total usable fuel and oil capacity? What type of fuel can be used?

19. What is the approximate airspeed and fuel burn at normal cruise setting?

20. Describe the wake turbulence avoidance procedures.

21. What personal documents are required to be carried onboard when flying as the PIC?

22. What aircraft documents are required to be onboard?

23. Draw the traffic pattern of a runway, labeling each leg. Which direction of turn is standard for an airport traffic pattern?

24. List the pattern altitude, direction of turns of all Left and Right runways, and all radio frequencies for KHWO.

25. When reporting at Holly Lake, what are the expected entry instructions by the Perry Tower given for 10L/R, 28L/R, 19L/R and 1L/R?

26. Who has the final authority to determine that the rental aircraft is airworthy? (91.3)

27. How does a pilot determine a Go/No-Go Decision?

28. Draw the hold short line and indicate which side of the line the aircraft has to be fully stopped.

29. How do you determine a pilot's Fitness of Flight?

30. What are the preflight actions required to be completed before each flight? (91.103)

31. What equipment and actions are required prior to entering the class D airspace?
(Specific for North Perry)?

32. Decipher the following METAR and calculate the crosswind component.

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KHWO 272253Z 12010KT 10SM FEW 007 VCSH 26/03 A3007 RMK AO2 SLP183  
T02560033 $
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33. What action should a pilot take if he or she is unsure as to the meaning of an ATC clearance received?

34. List the reasons why a pilot might decide to conduct a Go-Around. Also list the procedure steps for a Go-Around.

35. Calculate the %MAC of the following scenario and determine if the aircraft is within the CG Limit, if not, what can you do to adjust the weight to fall within the limit?

- Front: Your Weight + Instructor (160 lbs)
- Baggage (25 lbs)
- Fuel (19.8 gallons)

I have read, understand, and agree to comply with the POH or AFM and will operate the aircraft within the limitations established by the manufacturer and Dynasty Aviation Inc. I will abide by all FAA regulation and comply with Dynasty Aviation's policies.

Pilot's Print Name & Signature

Date

I have personally reviewed and corrected this form. I have reviewed any areas found deficient and completed ground training with the above-named pilot. I have found the above-named pilot's knowledge and training adequate to safely operate this aircraft.

Instructor's Print Name & Signature

Date

Chief Flight Instructor's Print Name & Signature

Date