

Phase 1: Pre-Flight

Valley Fliers

1402 Auburn Way North, #223  
Auburn WA 98002

Name: \_\_\_\_\_

Certificate Number: \_\_\_\_\_

Instructor: \_\_\_\_\_

Certificate Type: \_\_\_\_\_

Ratings: \_\_\_\_\_

Check Out Date: \_\_\_\_\_

Total Flight Time: \_\_\_\_\_ Last 90 Days: \_\_\_\_\_

Club check out is in two phases: Phase 1 – Pre-flight. Phase 2 – Flight.

**This is an open book check out. The aircraft's documentation will be required to complete the Phase 1 check out. Read the question and the possible answers, then print the letter of the most correct answer on the line next to the question.**

1. \_\_\_\_\_ The maximum take-off weight of C172 N9262H in the normal category is:
  - a. 2200 pounds
  - b. 2300 pounds
  - c. 2250 pounds
  
2. \_\_\_\_\_ The empty weight of C172 N9262H is:
  - a. 1480.1 pounds
  - b. 1500 pounds
  - c. 1556.4 pounds
  
3. \_\_\_\_\_ The useable fuel capacity of N9262H is:
  - a. 45 gallons total, 40 gallons useable
  - b. 40 gallons total, 39 gallons useable
  - c. 42 gallons total, 38 gallons useable
  
4. \_\_\_\_\_ What is the total engine oil capacity and, except for an extended flight, when should oil be replenished?
  - a. 6 qts, 4 qts minimum, fill to 6 qts.
  - b. 8 qts, 6 qts minimum, fill to 7 qts.
  - c. 6 qts, 4 qts minimum, fill to 5 qts.
  
5. \_\_\_\_\_ The maximum allowable weight that can be placed in the baggage areas in normal category operations is:
  - a. 120 pounds
  - b. 135 pounds
  - c. 100 pounds
  
6. \_\_\_\_\_ The maximum allowable weight of 50 lbs is located in the baggage area 2, how much weight can you put in baggage area 1?
  - a. 100 pounds
  - b. 50 pounds
  - c. 70 pounds
  
7. \_\_\_\_\_ The maximum allowable weight that can be placed in the baggage areas in utility category operations is:
  - a. 50 pounds in area 2, 25 pounds in area 1
  - b. None, both areas must be empty.
  - c. 70 pounds combined total of areas 1 and 2
  
8. \_\_\_\_\_ The first indication of carburetor ice in an aircraft with a normally aspirated engine in cruise flight with a fixed pitch propeller is:
  - a. A gradual decrease in RPM
  - b. A sudden decrease in RPM
  - c. Rough running engine and RPM loss
  
9. \_\_\_\_\_ The normal leaning procedure in an aircraft without an EGT is to set the engine up for cruise, lean the mixture until engine RPM peaks and begins to fall off, then:
  - a. Enrich the mixture until RPM drops 50 RPM
  - b. Enrichen slightly back to peak RPM
  - c. Lean the mixture another 25 RPM

## Check Out

## C172

10. \_\_\_\_ The maximum gross weight for operation in the utility category is:
- a. 1800 pounds
  - b. 2000 pounds
  - c. 2300 pounds
11. \_\_\_\_ What is the maximum allowable aft CG in the utility category?
- a. 47.3 inches aft of datum at all weights
  - b. 40.5 inches aft of datum at all weights
  - c. 45.3 inches aft of datum at all weights
12. \_\_\_\_ What is the maximum allowable aft CG in the normal category?
- a. 47.3 inches aft of datum at all weights
  - b. 40.5 inches aft of datum at all weights
  - c. 45.3 inches aft of datum at all weights
13. \_\_\_\_ The airspeed indicator in N9262H registers in:
- a. KPH
  - b. MPH
  - c. KTS
14. \_\_\_\_ What is the maximum demonstrated cross wind component of a C172?
- a. 15 MPH
  - b. 12 KTS
  - c. 15 KTS
15. \_\_\_\_ The distance to clear a 50 ft. obstacle in a maximum effort, no wind, 2300 lb. gross from a paved runway at sea level with a temperature of 15 C (59 F) and altimeter setting of 29.92" is:
- a. 1525 feet
  - b. 1340 feet
  - c. 1440 feet
16. \_\_\_\_ If the runway in question 15 was a dry grass strip, the take-off data would have to be adjusted by:
- a. Increase the total distance by 7%
  - b. Increase both the ground run and total distances by 7% of the total to clear a 50 foot obstacle
  - c. Increasing the ground run by 15%
17. \_\_\_\_ What engine setting would produce the closest performance to 75% brake horse power at 5,000 feet on a standard day?
- a. 2600 RPM, for 8.3 gallons/hour
  - b. 2400 RPM, for 8.0 gallons/hour
  - c. 2500 RPM, for 7.7 gallons/hour
18. \_\_\_\_ What is the recommended tire pressure for the main gear tires?
- a. 29 psi on 6.00 x 6 tires
  - b. 32 psi on 6.00 x 6 tires
  - c. 50 psi on 6.00 x 6 tires
19. \_\_\_\_ What is the recommended tire pressure for the nose gear tire?
- a. 31 psi on 5.00 x 5 tire
  - b. 32 psi on 5.00 x 5 tire
  - c. 50 psi on 5.00 x 5 tire
20. \_\_\_\_ What power setting and airspeed is recommended for a cruise climb?
- a. Full throttle and 70-85 MPH
  - b. Full throttle and 70-90 KTS
  - c. Full throttle and 60-75 KTS
21. \_\_\_\_ What power setting is recommended for cruise flight?
- a. 2150-2300 RPM, but no > than 65%
  - b. 2200-2700 RPM, but no > than 75%
  - c. 2450-2750 RPM, but no > than 75%
22. \_\_\_\_ When securing the aircraft, the fuel selector valve should be:
- a. Turned to the right tank to prevent siphoning
  - b. Remain on "Both"
  - c. Turned to the fullest tank
23. \_\_\_\_ What is the approved flap range for take-off?
- a. 0 to 10 degrees
  - b. Flaps not recommended for take-off
  - c. 0 to 20 degrees

## Check Out

**C172**

24. \_\_\_\_\_ When the Ammeter is broken and not working is a C172 considered airworthy and can be flown?
- Yes, it is not an instrument or equipment required by FAR 91.205
  - Yes, if the battery is less than one year old and fully charged
  - No, the equipment list indicates it is required for FAA certification
25. Using the Cessna manual's loading graph and center of gravity moment envelope for C172 N9262H, calculate the CG for the following:

Item	Weight	Moment/1000
Empty Weight		
Useable Fuel – 40 gallons	240	
Pilot and Co-Pilot	320	
Rear Seats	212	
Baggage Area 1	70	
Baggage Area 2	Empty	
Total Weight and Moment		

26. Using the Cessna manual's loading graph and center of gravity moment envelope for C172 N9262H, calculate the CG for the following:

Item	Weight	Moment/1000
Empty Weight		
Useable Fuel – 20 gallons		
Pilot and Co-Pilot	340	
Rear Seats	Empty	
Baggage Area 1	Empty	
Baggage Area 2	Empty	
Total Weight and Moment		

27. \_\_\_\_\_ Comparing the two weight and balance computations (questions 21 and 22), which configuration fits the utility category?
- Both
  - Question 25
  - Question 26
28. \_\_\_\_\_ What is the recommended approach speed with flaps down?
- 75 to 85 KTS
  - 75 to 80 KTS
  - 55 to 65 KTS

29. Provide the following airspeeds (IAS): Assume: Most forward CG and Gross Weight

$V_a$	Design maneuvering speed	_____
$V_{no}$	Maximum cruise speed	_____
$V_{ne}$	Never exceed speed	_____
$V_y$	Best rate of climb speed	_____
$V_x$	Best angle of climb speed	_____
$V_{fe}$	Maximum flap extension speed	_____
$V_{s1}$	Power off stall, flaps up	_____
$V_{so}$	Power off stall, flaps down	_____

30. \_\_\_\_ What airspeed produces the best glide for an engine out glide from 8,000 feet and how far could you glide in a zero wind condition?
- a. 100 MPH IAS, glide distance 20 SM
  - b. 65 KTS IAS, glide distance 12 SM
  - c. 85 KTS IAS, glide distance 18 SM
31. \_\_\_\_ What is the stalling speed in a 60 degree bank with full flaps at the most rearward CG?
- a. 62 KTS IAS
  - b. 51 KTS IAS
  - c. 45 KTS CAS
32. \_\_\_\_ The easiest way to ground handle this aircraft is to use the tow bar. What is the tow bar turning angle limits?
- a. Do not exceed 30 degrees from center
  - b. To the limit where it will turn no further
  - c. Do not exceed 60 degrees from center
33. \_\_\_\_ Where is the emergency locator transmitter (ELT) located?
- a. In the baggage compartment, right side
  - b. Behind the baggage compartment
  - c. In the baggage compartment, near door
34. \_\_\_\_ How is the ELT armed in this aircraft?
- a. A switch on the unit's case
  - b. It is always armed
  - c. A switch on the instrument panel, left side
35. \_\_\_\_ Where is the battery located?
- a. Behind the baggage compartment
  - b. Behind the engine, on the firewall
  - c. Under the rear seats
36. \_\_\_\_ What is the voltage of the electrical system?
- a. 14 volt generator, 12 volt battery
  - b. 28 volt alternator, 24 volt battery
  - c. 14 volt alternator, 12 volt battery
37. \_\_\_\_ Does C172 N9262H have a radio master switch?
- a. No, shut off each radio individually
  - b. Yes, for comm radios only
  - c. Yes, individual switches can be left on

## Check Out

C172

38. \_\_\_\_ What engine RPM is used for a magneto check?
- a. 2000 RPM
  - b. 1700 RPM
  - c. 2300 RPM
39. \_\_\_\_ When will the red "low voltage" light illuminate?
- a. When the alternator field current shuts off or low RPM during taxi
  - b. When the battery is depleted
  - c. When the electrical system is overloaded
40. \_\_\_\_ What is the normal engine RPM operating range at sea level?
- a. 2200-2500 RPM
  - b. 2000-2600 RPM
  - c. 1900-2300 RPM
41. \_\_\_\_ What minimum fuel grades (octane) are authorized for use in N9262H and how many fuel drain locations are there?
- a. AV 80/87 – 3 drains
  - b. AV100LL – 3 drains
  - c. AV 80/87 – 4 drains
42. \_\_\_\_ To act as pilot in command of this aircraft, you must be rechecked in the aircraft:
- a. Every Bi-Annual
  - b. Every year
  - c. If you have not flown a like aircraft in the preceding 90 days or when deemed by the Club
43. \_\_\_\_ Who is responsible for the aircraft documentation that must be on board the airplane before flight?
- a. The maintenance officer
  - b. The pilot in command
  - c. The safety officer
44. \_\_\_\_ Who is responsible for cleaning the airplane interior and windows after a flight?
- a. The next user
  - b. The cleaning crew
  - c. The pilot who just completed the flight
45. \_\_\_\_ Who is responsible for installing the control lock, securing the tie-downs and locking the aircraft's doors and windows?
- a. The maintenance officer
  - b. The person assigned to ramp duty
  - c. The pilot who just completed the flight
46. \_\_\_\_ Who can perform any maintenance or modifications on club aircraft?
- a. Any Club member on the active list
  - b. Anyone with a pilot's license, except students
  - c. The maintenance officer or his designee
47. \_\_\_\_ Who can instruct in club aircraft?
- a. Affiliated instructors approved by the board
  - b. Any instructor appointed by an associate
  - c. An instructor hired by the member
48. \_\_\_\_ In order to complete a check out in the C172, a club member must complete:
- a. A club authorized check out
  - b. A check out from an FBO
  - c. A check out form signed by any instructor

Phase 2: Flight

**Valley Fliers**  
**1402 Auburn Way North, #223**  
**Auburn WA 98002**

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Certificate Number: \_\_\_\_\_

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**The Phase 1 check out should be completed and discussed prior to the Phase 2 check out.**

Flight Review	Instructor initials indicating satisfactory performance – refer to applicable PTS
I. Pre-Flight Inspection	
II. Check List and Pre-Start Procedures	
III. Starting Engine	
IV. Normal Departure Operations a. Taxiing b. Pre Take-off Checks c. Normal Take-off d. Climb – appropriate power settings e. Cruise – appropriate power settings	a. _____ b. _____ c. _____ d. _____ e. _____
V. Air Work a. Steep Turns b. Flight at Minimum Controllable Airspeed c. Stall Recognition and Recovery d. Recovery from Unusual Attitudes by reference to instruments e. Simulated Emergency Descent	a. _____ b. _____ c. _____ d. _____ e. _____
VI. Normal Arrival Operations a. Descent and check list procedures b. Normal landings	a. _____ b. _____
VII. Pattern Work a. Cross wind take-off and landing b. Short field take-off and landing c. Soft field take-off and landing d. Go arounds e. Zero Flap landing	a. _____ b. _____ c. _____ d. _____ e. _____
VIII. After Landing and Post-Flight Procedures	
IX. Remarks:	

**Overall Completion of Transition or Original Aircraft Check Out**

**Phase 1 – Ground Instruction**

**Phase 2 – Flight Review**

Hours of ground instruction completed: \_\_\_\_\_

Hours of flight instruction completed: \_\_\_\_\_

Instructors signature: \_\_\_\_\_

Instructors signature: \_\_\_\_\_

Certificate number: \_\_\_\_\_

Certificate number: \_\_\_\_\_

Expiration date: \_\_\_\_\_

Expiration date: \_\_\_\_\_

**I have received training to operate a Cessna C172 aircraft and completed the ground and flight training noted above.**

Pilots signature: \_\_\_\_\_

Date: \_\_\_\_\_