LEADINGEDGE
AVIATION

Revision 3 - 4/04/2014

Name:______________________________________ Date: _________________

Aircraft Make and Model: **Cirrus SR20, SR22, and SR22T** (Circle one)

Insurance requirements: See the current revision of the LEA Aircraft Checkout Requirements document for the model specific insurance requirements.

Prior to rental of any Leading Edge Aviation aircraft the following items must be accomplished.

1. Memorization of the underlined items in the emergency section of the applicable Cirrus -----------☐
2. Memorize all V-Speeds appropriate to the intended rental aircraft ---------------------------------------☐
2. Complete the POH open book review --☐
3. Complete the aircraft differences table if applicable --☐
4. Complete the Leading Edge Aviation Weight and Balance form --☐
5. Avionics and Auto Pilot review with a Leading Edge Aviation Instructor --------------------------------☐
6. Complete the flight and ground section of the aircraft checkout with a Leading Edge Aviation Instructor to the completion standards set forth by Leading Edge Aviation ----------------------------☐
7. Complete all new account paperwork and insurance requirements -------------------------------------☐

I certify that the Leading Edge Aviation Ground Review has been corrected to 100%, any deficient items have been discussed, and the customer has demonstrated satisfactory knowledge in all areas.
Instructor Signature__________________________________ Date______________

Memorization Items:

1. What are the following V-Speeds? Vso_____, Vs_____, Vr_____,Vx_____, Vy_____, Vfe_____, Vo Max Weight_____, Vo Min Weight_____, Vno_____, Vne_____, Vbg - Max Weight_____, Vbg - Min Weight_____, Vpd_____.
2. Please use the last page of the packet to fill out the emergency procedures memory items

Local Airport Information:

1. What are the airport frequencies?
    2. Clearance_______ Ground_______ Tower_______
    3. Approach_______ ATIS_________ ASOS_______
    4. CTAF__________ Unicom_______
5. What runways are available for use? ____
6. What are the runway lengths? ____
7. What are the traffic patterns for each runway?_______________________________________
8. What is the calm wind runway? ____

Open Book Questions:

1. Total fuel capacity_______gals. Unusable fuel_______gals. Approximate fuel burn @ 75% power, 8,000ft, and standard temperature_______
2. What usable fuel is available when the aircraft is filled to the tabs?_______gals.
3. Engine information: Make_____________, Model_________, Horsepower_____@______RPM.
4. Oil quantity: Minimum________, Maximum_______, Grade (all temps)_______.
5. Is this airplane approved for intentional spins or aerobatics?_______.
   If so, in what category?_______.
6. With full fuel and 65% power, what is the endurance/range (with a 45 minute reserve) at 10,000ft? _______hours,_______miles.
7. What is the maximum demonstrated crosswind velocity? ______________________________
8. What are the approved fuels? ____
9. What is the baggage area weight limit? ____
10. Where is the fire extinguisher located? ____
11. Is the engine carbureted or fuel injected? ____
12. What is the maximum RPM for this engine? _______________________________________
13. What are the approved flap positions for takeoff? ___________________________________

14. Is this aircraft equipped with an alternate air source for the engine? If so, how is it operated? ____
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15. How many fuel drain valves are there and where are they located? ____________________
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16. What should be accomplished if there are signs of fuel contamination? __________________
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17. What is the charging system voltage? ______________________________
18. How many batteries are there?______________________________
19. What are the battery voltages?______________________________
20. Where is the external power receptacle located?______________________________
21. If using external power for engine start, what must first be verified before connecting power? ____
____
____
22. What are the recommended starter duty cycle times? ______________________________
23. What are the load limits for this airplane? ______________________________
24. Can slips with full flaps be made with this airplane?______________________________
25. What is the full throttle static RPM indication? ______________________________
26. What is the balked landing procedure? ______________________________
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____
27. What is minimum oil temperature prior to takeoff? ______________________________
28. What is the procedure if the ammeter does not show a positive charge after an external power assisted start? ______________________________
29. Is there a maximum zero fuel weight for this aircraft?_____. If so, what is it? ______________
30. Is unusable fuel and oil included in the Basic Empty Weight of the aircraft? ______________
31. Does this aircraft have rudder trim?______. Does this aircraft have a yaw damper? __________
32. Where are the fuel tank vents located? ______________________________
33. When should the fuel pump be used? ______________________________
34. How is the stall warning system tested in preflight?______________________________
35. What is the significance of Vo?______________________________
36. During the engine break-in period, what type of oil should be used? ____________________

37. What is the maximum takeoff altitude for the aircraft?________. What is the maximum operating altitude?____

38. Can you fly VFR with ALT 2 INOP?____

39. Can you fly IFR with ALT 2 INOP? ____

40. What is Vpd?____

41. When does the Fuel Caution light in the annunciator panel come on to indicated a low fuel condition? ____

42. Will the CAS (Crew Alerting System) alert the pilot if there is a fuel imbalance?________. If so, at which point will the annunciator alert(s) take place?______________________________________

43. How many amps/volts is Alternator 1 rated for? ______________________________________

44. How many amps/volts is Alternator 2 rated for? ______________________________________

45. Which bus does Alternator 1 supply power to?______________________________________

46. Which bus does Alternator 2 supply power to?______________________________________

47. Which bus is energized by Battery 1?____

48. Which bus is energized by Battery 2?____

49. In what situation would a Pitot Heat annunciation appear on the CAS? Is this a normal or abnormal condition? ____

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50. In the event that Alternator 1 fails, how long will Battery 1 last assuming full equipment utilization?

____

51. What is the glide ratio of this aircraft?____

52. In the event of an engine driven fuel pump failure, will the auxiliary fuel pump provide enough fuel pressure to power the engine?____

53. In the event that Alternator 1 fails, what would be the procedure for getting it back online? ______

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54. What equipment will be affected assuming Alternator 1 has failed and Battery 1 has been depleted? ____

55. What equipment will not be affected by the scenario listed above?__________________________

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56. What is the significance of checking the flap light with Battery 2 **on** and Battery 1 **off**? __________

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57. Does this aircraft have vortex generators?_____. If so, where are they and what purpose do they serve?____

58. How does the cold weather start differ from a normal start procedure?________________________

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59. How does a hot start differ from a normal start procedure? ________________________

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60. What are the break-in procedures for a new engine? ________________________

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61. What factors need to be taken into account if a successful parachute deployment is to be achieved?________________________

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62. How many degrees are the flaps deflected when at the 50% setting?_____. How many degrees in the 100% setting?________________________

63. What is the importance of knowing that the flaps are located on the Non-Essential Bus?________

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64. What three methods can be used to disconnect the autopilot? ________________________

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65. In the event that the aircraft loses oil pressure, will the propeller default to a high RPM, low pitch setting or a high pitch, low RPM setting? ________________________

66. Where is the datum for this aircraft located? ________________________

67. Describe what position the aircraft's occupants should be in prior to touchdown under the CAPS parachute.________________________

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Cirrus Generation Differences: If multiple generations of SR22/SR22T are to be utilized by the renter, this section should be filled out to reflect knowledge of the differences between the aircraft. For example, if the renter plans to fly a G3 and G5 Cirrus, both corresponding columns of the following table must be filled out.

G3	G5

Emergency Procedures: ____________________