LeadingEdge AVIATION

Aircraft Flight Checkout

Aircraft Make & Model_____

Customer Name_____   **Date**_____

Instructor Name_____

Instructions: This form is to be used for the evaluation of prospective renters, instructors and students that require aircraft rental for purpose of recreation, transportation, solo flight, training, or time building. The checklist format allows for easy documentation of required items completed for the purpose of checkout. All maneuvers and procedures should be at the private pilot skill level unless otherwise indicated. Small deviations to the skill level necessary for rental may be made at the instructor's discretion for solo students as long as the Leading Edge Aviation solo requirements and the syllabus requirements and standards have been met. This checklist is not all inclusive and should be used as a guide to evaluate a pilot's skill level. At the instructors discretion more maneuvers may be required if necessary to evaluate a person's skill level. Check the box if a maneuver, task or procedure has been found satisfactory. If a maneuver, task, or procedure has been demonstrated unsatisfactorily do not check the box and annotate on the remarks pages the item (i.e. 1. b. Or if it is not listed simply state the deficiency) and a description of the reason for the deficiency. Annotate N/A beside the box if the task does not apply to the aircraft checkout.

1. **Preflight**
   a. Uses the appropriate Leading Edge Aviation checklist ----------------------------------☐
   b. Identifies and inspects all appropriate items on the aircraft----------------------------☐
   c. Verifies the aircraft is safe for flight--☐
2. **Engine Starting**
   a. Understands the starting procedure prior to start --☐
   b. Selects the proper engine starting procedure (hot, cold, ect…)------------------------☐
   c. Adheres to the starter limitations ---☐
   d. Ensures the area is clear prior to start--☐
3. **Taxiing**
   a. Performs brake check prior to taxi --☐
   b. Maintains taxi centerline during taxi---☐
   c. Uses appropriate power and braking techniques--☐
   d. Positions flight controls for the wind --☐
   e. Maintains adequate clearance from obstacles --☐
4. **Before Takeoff Check**
   a. Understands the reason for why each item checked --------------------------------------☐
   b. Is able to detect a malfunction ---☐
   c. Completes each item properly from the checklist---☐

    d.   Completes a pre takeoff brief--□

5. **Normal Takeoff**
   a. Checks for traffic prior to entering the runway --□
   b. Aligns the aircraft with the runway centerline --□
   c. Identifies any engine or instrument anomaly after application of power ------------□
   d. Positions flight controls for the existing wind conditions--------------------------------□
   e. Establishes the proper liftoff attitude at Vr --□
   f. Accelerates to the appropriate climb speed Vx or Vy-------------------------------------□
   g. Maintains alignment with the runway centerline--□
   h. Retracts gear after a positive rate of climb is established -----------------------------□
   i. Retracts flap at the appropriate altitude--□
   j. Maintains Directional control and alignment with the runway -----------------------□

6. **Short Field Takeoff**
   a. Checks for traffic prior to entering the runway --□
   b. Aligns the aircraft with the runway centerline --□
   c. Identifies any engine or instrument anomaly after application of power ------------□
   d. Positions flight controls for the existing wind conditions--------------------------------□
   e. Establishes the proper liftoff attitude at the recommended airpeed----------------□
   f. Accelerates to the appropriate climb speed Vx or Vy-------------------------------------□
   g. Maintains alignment with the runway centerline--□
   h. Retracts gear after a positive rate of climb is established -----------------------------□
   i. Retracts flaps at the appropriate altitude ---□
   j. Maintains directional control and alignment with the runway------------------------□

7. **Use of climb and cruise checklists**
   a. Proper and appropriate use of climb checklist --□
   b. Proper and appropriate use of cruise checklist--□

8. **Steep turns**
   a. Selects a suitable altitude and area for maneuvers --□
   b. Clears the area--□
   c. Configures the aircraft for the maneuver---□
   d. Ensures the aircraft is at the appropriate maneuvering speed-------------------------□
   e. Completes a steep turn in each direction to the private pilot PTS--------------------□
   f. Divides attention between inside and outside visual references ---------------------□
   g. Maintains positive aircraft control throughout the maneuver -----------------------□

9. **Slow Flight**
   a. Selects a suitable altitude and area for maneuvers --□
   b. Clears the area--□
   c. Configures the aircraft for the maneuver (with and without flaps) -------------------□

    d.   Completes various turns in each direction --□

    e.   Divides attention between inside and outside visual references ----------------------□

    f.   Completes the maneuver to the private pilot PTS--□

    g.   Maintains positive aircraft control throughout the maneuver ------------------------□

10. Power on stalls

    a.   Selects a suitable altitude and area for maneuvers --□

    b.   Clears the area---□

    c.   Configures the aircraft for the maneuver (with and without flaps) -------------------□

    d.   Initiates the maneuver with a turn up to 20° and or straight and level --------------□

    e.   Recovers with a minimal loss of altitude---□

    f.   Demonstrates the maneuver with the safe outcome never in doubt ----------------□

    g.   Divides attention between inside and outside visual references ----------------------□

    h.   Completes the maneuver to the private pilot PTS--□

    i.   Maintains positive aircraft control throughout the maneuver ------------------------□

11. Power off stalls

    a.   Selects a suitable altitude and area for maneuvers --□

    b.   Clears the area---□

    c.   Configures the aircraft for the maneuver (with and without flaps) -------------------□

    d.   Initiates the maneuver with a turn up to 20° and or straight and level --------------□

    e.   Recovers with a minimal loss of altitude---□

    f.   Demonstrates the maneuver with the safe outcome never in doubt ----------------□

    g.   Divides attention between inside and outside visual references ----------------------□

    h.   Completes the maneuver to the private pilot PTS--□

    i.   Maintains positive aircraft control throughout the maneuver ------------------------□

12. Emergency Procedures-Select one engine related scenario and at least two other emergencies. Some of these scenarios may and or should be used in conjunction with others.

    a.   Engine failure after departure ---□

    b.   Engine failure enroute ---□

    c.   Partial engine power ---□

    d.   Electrical failure --□

    e.   Engine fire --□

    f.   Radios inoperative---□

    g.   Inadvertent IMC entry --□

    h.   Carburetor ice---□

    i.   Pitot static --□

    j.   Fuel pump failure --□

    k.   Gear indication failure ---□

    l.   Hydraulic pump failure ---□

    m. Oil temperature high --□

    n. Oil pressure low --□

    o. High cylinder head temperature --□

    p. Excessive rate of charge --□

13. Emergency Procedure One

    a. Completes all of the required memory items --□

    b. Uses the appropriate checklist for the remaining items --------------------------------□

    c. Divides attention between the flying task, emergency tasks, and outside ----------□

    d. Selects a suitable site for landing as necessary --□

    e. Maneuvers the aircraft to land at the selected field as necessary --------------------□

    f. Contacts ATC for emergency services as necessary --□

    g. Selects the appropriate transponder code(simulated) as necessary ------------------□

    h. Exercises good judgment--□

    i. Safe outcome of the scenario never in doubt --□

    j. Maintains appropriate altitude separation from ground structures ------------------□

14. Emergency Procedure Two

    a. Completes all of the required memory items --□

    b. Uses the appropriate checklist for the remaining items --------------------------------□

    c. Divides attention between the flying task, emergency tasks, and outside ----------□

    d. Selects a suitable site for landing as necessary --□

    e. Maneuvers the aircraft to land at the selected field as necessary --------------------□

    f. Contacts ATC for emergency services as necessary --□

    g. Selects the appropriate transponder code as necessary --------------------------------□

    h. Exercises good judgment--□

    i. Outcome of the scenario never in doubt --□

    j. Maintains appropriate altitude separation from ground structures ------------------□

15. Emergency Procedure Three

    a. Completes all of the required memory items --□

    b. Uses the appropriate checklist for the remaining items --------------------------------□

    c. Divides attention between the flying task, emergency tasks, and outside ----------□

    d. Selects a suitable site for landing as necessary --□

    e. Maneuvers the aircraft to land at the selected field as necessary --------------------□

    f. Contacts ATC for emergency services as necessary --□

    g. Selects the appropriate transponder code as necessary --------------------------------□

    h. Exercises good judgment--□

    i. Outcome of the scenario never in doubt --□

    j. Maintains appropriate altitude separation from ground structures ------------------□

16. Emergency Procedure Four

    a. Completes all of the required memory items ---□

    b. Uses the appropriate checklist for the remaining items ----------------------------------□

    c. Divides attention between the flying task, emergency tasks, and outside ----------□

    d. Selects a suitable site for landing as necessary---□

    e. Maneuvers the aircraft to land at the selected field as necessary----------------------□

    f. Contacts ATC for emergency services as necessary --□

    g. Selects the appropriate transponder code as necessary-----------------------------------□

    h. Exercises good judgment--□

    i. Outcome of the scenario never in doubt ---□

    j. Maintains appropriate altitude separation from ground structures -------------------□

17. Communications

    a. Adheres to proper radio phraseology and techniques -----------------------------------□

    b. Communicates position and altitude correctly and timely ------------------------------□

    c. Complies with ATC instruction---□

18. Navigation

    a. Navigates to and from the airport unassisted using pilotage----------------------------□

    b. Uses appropriate and current chart/publications for navigation ----------------------□

    c. Understands and can use installed navigation equipment -----------------------------□

    d. Understands the limitations of the installed navigation equipment -----------------□

19. Traffic Pattern

    a. Enters the traffic pattern at the appropriate speed and altitude ----------------------□

    b. Uses the recommended traffic pattern entry---□

    c. Announces position prior to and in the traffic pattern ----------------------------------□

    d. Uses the appropriate checklist --□

    e. Fly's a consistent pattern maintaining a constant distance from the runway -------□

20. Normal or crosswind landing

    a. Final approach is stabilized (constant airspeed constant rate of decent)-------------□

    b. Landing Checklist is complete prior to final --□

    c. Announces and verifies gear down (yes again) on final ----------------------------------□

    d. Applies ½ gust factor to final approach speed---□

    e. Maintains recommended approach airspeed +5 -0 KIAS---------------------------------□

    f. Prior to the landing flare align the longitudinal axis with the runway(x-wind) ------□

    g. Touchdown smoothly maintaining centerline and proper cross wind controls -----□

    h. Applies brakes smoothly and progressively (do not lock up the wheels) ------------□

    i. Exits the runway at a safe exit point and speed---□

    j. Contacts ground or announces clear of the runway -------------------------------------□

21. Short Field Landing

    a.   Landing Checklist is complete prior to final ---☐

    b.   Aircraft is configured to land prior to or just after the turn to final-------------------☐

    c.   Announces and verifies gear down (yes again) on final ----------------------------------☐

    d.   Final approach is stabilized (constant airspeed and constant rate of decent--------☐

    e.   Final approach airspeed is maintained +5 -0 KIAS ---☐

    f.   Applies ½ gust factor to final approach speed--☐

    g.   Does not allow a below normal glide, low airspeed, high drag approach ------------☐

    h.   Prior to the landing flare align the longitudinal axis with the runway(x-wind) ------☐

    i.   Lands at or within 200 ft beyond a designated point on the runway -----------------☐

    j.   Promptly retracts flaps and brings the yoke to a full aft position---------------------☐

    k.   Applies brakes as necessary--☐

    l.   Maintains centerline ---☐

    m. Exits the runway at a safe taxi speed ---☐

    n.   Contacts ground or announces clear of the runway -------------------------------------☐

22. Balked landing

    a.   Recognizes the need for a go-around---☐

    b.   Promptly applies takeoff power--☐

    c.   Sets the pitch attitude for a climb --☐

    d.   Retracts flaps to 20°---☐

    e.   Maintains positive aircraft control--☐

    f.   Configures the aircraft for climb ---☐

    g.   Completes the necessary checklists---☐

23. Securing and Shutdown

    a.   Uses the appropriate checklist for engine shutdown and securing -------------------☐

    b.   Performs magneto check ---☐

    c.   Shuts down the aircraft in the proper order ---☐

    d.   Verifies all aircraft switches are in the off position--☐

    e.   Ensures gust lock and pitot tube covers are installed--------------------------------------☐

    f.   Ensures the aircraft is tied down securely --☐

    g.   Records hobbs and tach data ---☐

    h.   Performs a post flight walk around to verify condition of the aircraft----------------☐

I certify that the aforementioned pilot has successfully completed the Leading Edge Aviation aircraft flight checkout to the standards set forth by Leading Edge Aviation and is competent to safely fly the aforementioned aircraft.

_____   Date_____

Instructor Signature

Comments:

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