

Private Pilot Flight Instruction Lesson Plan

Introductory Lesson and Aircraft Familiarization

Student: _____ Date: _____

Objectives:

Upon completion of this lesson, the student will:

- Have a general familiarity with the training airplane and its systems.
- Have a general understanding of the necessary pre-flight activities and the use of checklists.
- Have a general understanding of the flight controls and their function.
- Know the sensation of flying.

Elements:

- Walk-around pre-flight inspection of the airplane with explanations of the various parts of the airplane and their functions.
- Explanation of the cockpit controls and their functions and the flight and engine instruments.
- Explanation of required documents (AROW).
- Short demonstration flight with the student handling the controls.
- Explanation of the next steps to take for the student to obtain a Private Pilot's license.

Schedule:

• Pre-lesson briefing	00:10
• Preflight procedures	00:10
• Engine start and Taxi procedures	00:05
• Pre-takeoff procedure (run up)	00:05
• Takeoff	00:00
• Familiarization flight	00:25
• Post-flight procedures	00:10
• Post-lesson debriefing	00:10
Total:	01:15

Equipment:

- POH and/or appropriate checklists for aircraft to be flown.

Instructor Actions:

1. Pre-lesson briefing
 - Get to know a little about the student (why he or she wants to fly, background, etc.). In other words *break the ice*.
 - Present objective for the lesson.
 - Describe what will take place during the lesson.

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2. Preflight procedures
 - Introduce student to the POH pre-flight checklist.
 - Explain required documents (AROW)
 - Guide student through pre-flight inspection. Explain function and importance of each item inspected. Address safety issues.
 - Explain use of cockpit controls and basic instruments.
3. Engine start and Taxi procedures
 - Guide student through engine start procedure using the checklist. Emphasize importance of ensuring the area is clear before starting the engine.
 - Assist student in taxiing to the appropriate run-up area. Explain proper use of flight controls during taxi.
 - Explain positioning of aircraft into the wind (if possible) for the run-up, and such that the prop wash isn't aimed at people, cars, other airplanes or buildings.
4. Pre takeoff procedure (run-up)
 - Guide student through the run-up procedures.
 - Explain dual ignition system while doing the magneto check.
 - Explain carburetor heat (if used on the particular airplane).
5. Takeoff
 - Perform takeoff. Have student follow loosely on the controls.
6. Familiarization flight
 - Allow student to fly the airplane once at a safe altitude.
 - Explain proper scan technique.
 - Explain and demonstrate use of flight controls, outside references and instrument indications during straight and level flight, medium-banked turns, climbs and descents.
 - Instructor should fly in the traffic pattern.
 - Explain traffic pattern entry procedure.
 - Explain traffic pattern legs.
 - Explain downwind (GUMPS) check.
 - Perform approach and landing. Allow student to follow loosely on the controls.
7. Post-flight procedures
 - Guide student through performance of post-flight procedures using the appropriate checklists (shut down and securing of the airplane).
8. Post-lesson debriefing
 - Encourage student to ask questions.
 - Explain logbook entries.
 - Preview next lesson and assign reading material.

Student Actions:

1. Pre-lesson briefing
 - Ask questions

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2. Preflight procedures
 - Perform pre-flight inspection with assistance of instructor.
3. Engine start and Taxi procedures
 - Perform engine start procedure using appropriate checklist with help of instructor.
 - Taxi to run-up area with instructor assistance.
4. Pre takeoff procedure (run-up)
 - Perform pre-takeoff procedure using appropriate checklist.
5. Takeoff
 - Follow instructor on the flight controls during takeoff and climb-out.
6. Familiarization flight
 - Use proper visual scan technique to look for other traffic.
 - Perform straight and level flight, medium-banked turns, climbs and descents using visual references and instruments.
 - Observe traffic pattern entry procedure.
 - Perform downwind (GUMPS) check.
7. Post-flight procedures
 - Perform shut down using appropriate checklist.
 - Secure airplane.
8. Post-lesson debriefing
 - Ask questions about the flight and/or next steps in training.

Completion Standards:

This lesson will be successfully completed when the student is able to:

- Perform a thorough preflight inspection of the airplane using the appropriate checklist with minimal instructor supervision.
- Perform engine start and pre-takeoff procedures using the appropriate checklist with minimal instructor supervision.
- Taxi the airplane with minimal instructor assistance.
- Perform post-flight procedures using the appropriate checklist with minimal instructor assistance.
- Display a fundamental knowledge of the use and effect of the flight controls.

References:

- POH/AFM for airplane used.
- Jeppesen PPM; Chapters 1 – 3
- Airplane Flying Handbook (FAA-H-8083-3A); Chapter 1