

Objectives	<ul style="list-style-type: none"> ▪ The student will understand the elements relate to the various methods of flight instruction
Elements	<ul style="list-style-type: none"> ▪ Obstacles in learning during flight instruction ▪ Demonstration-performance training delivery ▪ Positive exchange of controls ▪ Sterile cockpit ▪ Use of distractions ▪ Integrated flight instruction ▪ Assessment of piloting ability ▪ Aeronautical decision making
Schedule	<ul style="list-style-type: none"> ▪ Review lesson objectives ▪ Review lesson material ▪ Conclusion & Review
Equipment	<ul style="list-style-type: none"> ▪ White Board / Markers ▪ References
CFI Actions	<ul style="list-style-type: none"> ▪ Present lesson ▪ Use teaching aids ▪ Ask/ answer questions
Student Actions	<ul style="list-style-type: none"> ▪ Participate in discussion ▪ Take notes ▪ Ask / answer questions
Completion Standards	<ul style="list-style-type: none"> ▪ The student can explain and teach using the methods discussed in this less

Additional Notes: _____

CE = Common Error

Introduction

Overview

Review objectives / Elements

What

This lesson will cover the elements required to be a proficient flight instructor

Why

Students are paying a lot of money for your time, they expect proficient flight instruction

How

Obstacles to Learning

Feeling of Unfair Treatment

- Students who believe their instruction is inadequate, or that all their efforts are not evaluated do not learn well
 - Assigning a student challenging goal makes the student more motivated and promotes learning

Impatience to proceed to more interesting operations

- Impatient students don't understand the need for training and only desire the final goal
 - The basic topics must be mastered before the student can move on

Physical discomfort, illness, fatigue, and dehydration

- Learning is not beneficial if the student doesn't have the physical needs
- Fatigue can be acute or chronic

Apathy due to inadequate instruction

- The instructor must prepare and care
- Students are spending a lot of money to have you instruct them

Anxiety

- Students must be comfortable/confident in the instructor and the airplane
- A safe, healthy atmosphere will boost learning

Demonstration-Performance Method

Explanation Phase

- **The instructor must discuss the objectives, completion standards and provide a thorough briefing of the task**
 - Students need to know what they are expected to learn
 - Encourages questions
- **The instructor shows the action to complete the skill within standards**

Student performance and instructor supervision phase

- **Student performs the skill and learns from repetition**
 - Instructor provides advice

Evaluation Phase

- **Evaluate the student and advise the student of their progress**

Positive Exchange of Controls

- **There must be a clear understanding of who is flying the airplane at a given time**
 - 2 people cannot fly the airplane at once

Use 3-way exchange when giving or taking the controls

- "You have the flight controls"
- "I have the flight controls"
- "You have the flight controls"

Sterile Cockpit

- **The idea of a sterile cockpit is to avoid non-essential conversation during critical phases of flight**
 - Talking about the football game while taxiing isn't productive
- **Critical phases of flight include takeoff, landing, departure, arrival (everything other than cruise)**

Use of Distractions

- **Many accidents occur due to the pilot being distracted from flying the plane**
- **A sterile cockpit helps concentrate on flying the airplane**
- **The FAA encourages instructors to simulate scenarios that could cause distractions**
 - This teaches the student to divide his/her attention
- **A student must be able to take charge and tell passengers, the DPE, act. Then something is distracting**

Integrated Flight Instruction

- The student is taught to perform maneuvers by both visual and instrument reference
- Develops good scanning habits
- Evolves into overall better aircraft control
- In no way does this mean that students are ready for IFR flight

Procedures

- Explain the control inputs used and the associated visual and instrument references
 - Be detailed, use specific terms such as control pressure or control movements

See & Avoid

- It is always the pilot's responsibility to see and avoid traffic
 - Don't let the student depend on you, teach them safety first
- Perform clearing turns before maneuvering
- Understand and comply with **14 CFR 91.113** right of way rules

Assessment of Piloting Ability

- It's important to keep students updated on their progress
- Provide them with direction and guidance to raise their performance

Maintain a Written Record/Grade of Every Flight Lesson & Maneuver

- This provides a student with a picture of what needs improvement, allowing them to see progress over time
- The student needs to be (although not immediately in training) heeled to ACS/PTS standards
- Don't forget a post-flight debrief

Correction of Student Error

- Don't immediately take controls during a mistake
 - Let the student work it out unless it is dangerous or becoming dangerous

Pilot Supervision

- Before endorsing a student for solo flight, ensure the student is consistently in standards with all required maneuvers

Dealing with Normal Challenges

- Students must be able to handle challenges thrown at them in the air
- Ensure they are competent and confident with challenges on the ground
 - If they cannot handle problems on the ground, they will not be able to in the plane

Practicing Landings

- Perform full stop landings (not just touch and goes)
 - Full stops help learn aircraft control and checklist usage

Practical Test endorsements

- AC 61-65H
 - Students need to be completely prepared or else its on you

Aeronautical Decision Making (ADM)

- **ADM is a systematic approach to the mental process used by pilots to consistently determine the best course of action for a given set of circumstances**
- **Teaching pilots to make sound decisions is the key to preventing accidents**

The Decision-Making Process

- **Defining the Problem**
 - Recognize that a change has occurred, and expected result did not occur
 - Incorrectly identifying the problem can create a worse problem
- **Choose a course of action**
 - Evaluate the need to react and determine what available actions can solve the problem in the time available
- **Implementing the decision and evaluation the outcome**
 - Continue to evaluate how the decision will affect the flight

Factors Affecting Decision Making

- **Hazardous Attitudes – These must be recognized and removed**
- **Stress**
 - Some stress is needed/good
 - Too much stress can be very bad
- **3 Types of stress**
 - Physical
 - Physiological
 - Psychological

Use of Resources

- **Use all available resources, think outside the box**
- **Internal resources – found inside the flight deck**
 - Equipment, systems, charts, books, etc.
 - The knowledge of the flight crew, Passengers, etc.
- **External resources – ATC and flight service**
- **Workload management (Plan, Plane, Pilot, Passengers, Programming)**

Conclusion & Review

Conclusion

- Briefly review the main lesson plans and anything in question

Review

1. Obstacles to learning during flight instruction
2. Demonstration-performance training delivery
3. Positive exchange of controls
4. Sterile cockpit
5. Use of distractions
6. Integrated flight instruction
7. Assessment of piloting ability
8. Aeronautical Decision Making