

Lesson 4

Flight Instruction & Evaluation

Content

- Flight Instruction
 - Preparatory Ground Instruction (PGI)
 - Pre-Flight & Post-Flight Debriefing
- Evaluation: How To Evaluate
- The 4 point marking scale
- Strengths, weaknesses, ways to improve.
- Developmental Teaching for flight
- Emotions

Flight Instruction

- Ground school already done
- Preparatory Ground Instruction
- Pre-Flight Briefing
- Post-Flight Debriefing

Ground School

Introduces items in Study and Reference Guide

- Usually classroom group
- May use power point slides, emphasize most important points.
- Effective teaching topics students have a hard time self teaching
- topics student needs prior to the PGI and TC exam
 - students need background knowledge

Online question bank for exam

Preparatory Ground Instruction (PGI)

- Introduces flight lesson in Classroom
- Usually one to one
- Some theory and safety but essentially “what we are going to do, questions?”
- Taught immediately or within 24 hours of the air exercise.
- 1 PGI for each air exercise.
- Format: Introduction, TKT, Content, Summary, Student Questions, Instructor Questions, Link / Conclusion

PRE-FLIGHT BRIEFING

- Short discussion just prior to flight
- Ensures student understands what will take place
- Avoids theory
 - What we will do?
 - How to do it?
 - Safety

Pre-Flight Briefing

- Ready to fly?
 - Student **prepared and ready to learn**? What learning factor?
 - Mentally, Physically, Emotionally: IM SAFE?
 - ILLNESS, MEDICATIONS, STRESS, ALCOHOL, FATIGUE, EATING

Pre-flight 2

- Involve student in assessment of weather and NOTAMS.
- Discuss the aircraft. Fuel, defects
- Where are we conducting the flight?
- How long will the flight take? Still sufficient time?
- Sequence of flight.
- PDM and SAFETY
- Student questions

In-flight instruction

- Result of ground training and preparation
- Best flown immediately after Pre-Flight Briefing
- Flown “as-briefed” to avoid confusion
- CONTROL OF AIRCRAFT- “I HAVE CONTROL” “YOU HAVE CONTROL”
- Don’t “ride’ controls
- Review main points of maneuver
- If a complex maneuver is being conducted, break it down into small stages

In-flight instruction (fig pg 39)

- Correct major errors first and then minor errors as student progresses
- When able, finish the lesson with a perfect demonstration of the next maneuver to be learned
- ANALYSIS - always take control while giving feedback.
- PLAN THE FLIGHT – avoid delays between manoeuvres: altitudes, locations, airspeed. Example: forced approach then low level diversion

Post-Flight Debrief

- Evaluation following dual and solo flights.
- Ask student first: How did you feel about lesson?
- Give student evaluation in the correct order:
 - Good things first. It wasn't all bad!
 - In the middle, what we need to improve.
 - Ways to improve, what to do next to improve.
- Points for improvement, for positive *Effect*
- Leave the student with goal for next lesson and a positive outlook

Evaluation

- How To Evaluate
- The 4 point marking scale
- Positives, negatives, ways to improve.

How To Evaluate

- We must know the objective first.
- Flight Test Standards Guide
- Guide to marking flight tests

The 4 Point Marking Scale

- Used for lesson plans and on flight tests to grade each exercise.
 - 1 - Serious problem or safety concern, instructor had to take control
 - 2 - Major deviations from the standard but corrected and kept under control.
 - 3 - Minor deviations from the standard expected.
 - 4 - Exercise completed well within the standard.
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- Page 2.2-6

Good things, bad things, ways to improve

- Student evaluation in the correct order:
 - Good things first. No limits
 - Bad things, Air Analysis (1 major), Ground Analysis (max 3 major)
 - Ways to improve, what are we going to do next to improve.

Emotions

- Anxiety or fear will interfere with flight instruction.
- Instructor may have to reinforce the students enjoyment of flying.
- Stress
- Over Co-operation
- Changes in mood
- Anger
- Fear

Summary

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HomeWork

- Next class: Lesson Planning. Homework, choose subject that you are very knowledgeable in and is non-aviation related.
- Something you could talk about in detail.
- Something you could teach in 15 minutes.