

Lesson 17. Visual scanning, collision avoidance, and runway incursion avoidance

Ground 0.75 hr | Dual 0 hr | ACS AI.II.B, AI.II.C

CFI CANDIDATE

DATE

SUPERVISING INSTRUCTOR

AIRCRAFT

N41459 Warrior

Ground only

FLIGHT TIME

GROUND TIME

OBJECTIVE

The candidate teaches a scan a student can actually run, and teaches runway incursion avoidance as a procedure rather than as a warning.

Both subjects on this page are ones where instructors get killed, and both are usually taught as exhortation. "Keep a good lookout" is not a teachable method.

LESSON STEPS: THE ELEMENTS, IN TEACHING ORDER

Check each element as it is taught. Leave anything not done blank. Sign once at the bottom.

- How the eye actually works: focal versus peripheral, empty field myopia, blind spot
AI.II.B FAA-H-8083-25C
- A scan pattern a student can run, and why time-sharing inside and outside matters
AI.II.B
- Collision avoidance: right of way, converging geometry, the aircraft that does not appear to move
AI.II.B 91.113
- The instructor's own scan is degraded while teaching
FI.I.F.R2
- Runway incursion avoidance: signs, markings, lighting, hold short lines
AI.II.C
- Taxi procedures that prevent incursions: airport diagram, taxi clearance readback, positional awareness
AI.II.C
- Candidate teaches an assigned element to the Simulated Student
US-4.1

COMPLETION STANDARDS

- The candidate teaches an assigned element for about eight minutes, giving a method a student could run rather than an instruction to be careful.
- The candidate catches the incorrect taxi readback and corrects it without taking over.
- The candidate states how their own scan degrades while instructing and names one specific mitigation they will use.
- The candidate teaches a scan pattern with a stated timing, not "keep looking around".
- The candidate uses the actual airport diagram for the field in question.
- The candidate delivers a self-critique before hearing the instructor's.

DEBRIEF AND SIGN-OFF

Critique: the error, its probable cause, and the correction. Candidate self-critique first.

Sign once for the whole lesson. Elements left unchecked above were not taught this session.

SUPERVISING INSTRUCTOR SIGNATURE / INITIALS

DATE