

Lesson 18. Night operations and high altitude operations

Ground 0.75 hr | Dual 0 hr | ACS AI.II.M, AI.II.N, AI.II.O

CFI CANDIDATE

DATE

SUPERVISING INSTRUCTOR

AIRCRAFT

N41459 Warrior

Ground only

FLIGHT TIME

GROUND TIME

OBJECTIVE

The candidate teaches night operations and the two high altitude tasks, and can say which parts of each are regulatory, which are physiological, and which are North Aero's judgment.

Three ACS tasks in one lesson because two of them are small. AI.II.N and AI.II.O carry limited content for a single-engine piston candidate and padding them out would waste the hour.

LESSON STEPS: THE ELEMENTS, IN TEACHING ORDER

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

- Night vision: rods and cones, off-center viewing, dark adaptation
AI.II.M FAA-H-8083-25C
- Night illusions, including the black hole approach and false horizons
AI.II.M
- Aircraft lighting and airport lighting at night
AI.II.M 91.209
- Night equipment requirements, and night currency
91.205(c), 61.57(b)
- Teaching a first night flight: what changes for a student
AI.II.M
- Supplemental oxygen requirements and physiology
AI.II.N 91.211
- Pressurization: how it works, and what a failure looks like
AI.II.O
- Candidate teaches an assigned element to the Simulated Student
US-4.1

COMPLETION STANDARDS

- The candidate teaches an assigned element for about eight minutes.
- The candidate describes the black hole approach in terms a student would recognize in the airplane, and states one mitigation.
- The candidate distinguishes night for currency from night for logging, correctly, from the regulation.
- The candidate answers "is night more dangerous?" honestly, naming a real hazard and a real mitigation, without dismissing the question.
- The candidate identifies one North Aero night policy that is stricter than the regulation.
- 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