EO C431.01 – EXPLAIN FLIGHT PERFORMANCE FACTORS

1. **Performance**: Explain Flight Performance Factors
2. **Conditions**:
   a. Given:
      (1) Supervision, and
      (2) Assistance as required.
   b. Denied: Nil.
   c. Environmental: Classroom or training area large enough to accommodate the entire group.
3. **Standard**: The cadet shall explain flight performance factors, to include:
   a. left turning tendencies,
   b. climbs and glides,
   c. turns,
   d. stalls, spins, and spirals, and
   e. airspeed limitations.
4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Explain the following left turning tendencies: a. torque, b. asymmetric thrust, c. precession, and d. slipstream.	Interactive Lecture	15 min	C3-116 (pp. 32–33)
TP2	Explain climbs and glides.	Interactive Lecture	10 min	C3-116 (pp. 33–34)
TP3	Explain turns.	Interactive Lecture	5 min	C3-116 (pp. 34–35)
TP4	Explain stalls, spins, and spirals.	Interactive Lecture	15 min	C3-116 (pp. 35–38)
TP5	Explain airspeed limitations.	Interactive Lecture	5 min	C3-116 (pp. 38–39)

5. **Time**:

a.	Introduction / Conclusion:	10 min
b.	Interactive Lecture:	50 min
c.	Total:	60 min

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Verify against the official publication.

6. **Substantiation**: An interactive lecture was chosen for this lesson to clarify, emphasize, and summarize flight performance factors.

7. **References**: C3-116 ISBN 0-9680390-5-7 MacDonald, A. F., & Peppler, I. L. (2000). *From the ground up: Millennium edition*. Ottawa, ON: Aviation Publishers Co. Limited.

8. **Training Aids**:

   a. Presentation aids (eg, whiteboard / flip chart / OHP / multimedia projector) appropriate for the classroom / training area, and

   b. Model aircraft with articulated control surfaces and flaps.

9. **Learning Aids**: Nil.

10. **Test Details**: Nil.

11. **Remarks**: Cadets who are qualified Advanced Aviation may assist with this instruction.

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