EO M436.01 – EXPLAIN WINDS

1. **Performance**: Explain Winds

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 winds, to include:

   a. surface winds, and

   b. jet streams.

4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Explain surface winds, to include: a. katabatic and anabatic winds, b. mountain waves, and c. gusts and squalls.	Interactive Lecture	15 min	C3-116 (pp. 130–132)
TP2	Describe jet streams.	Interactive Lecture	10 min	C3-116 (pp. 134–135) C3-334

5. **Time**:

a.	Introduction / Conclusion:	5 min
b.	Interactive Lecture:	25 min
c.	Total:	30 min

6. **Substantiation**: An interactive lecture was chosen for this lesson to orient the cadets to winds and generate interest in the subject.

7. **References**:

   a. 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.

   b. C3-334 Short N. (2005). Remote Sensing Tutorial. *Federation of American Scientists*. Retrieved February 26, 2009, from http://www.fas.org/irp/imint/docs/rst/Sect14/Sect14_1c.html

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Verify against the official publication.

8. **Training Aids**: Presentation aids (eg, whiteboard / flip chart / OHP / multimedia projector) appropriate for classroom / training area.

9. **Learning Aids**: Nil.

10. **Test Details**: This EO is assessed IAW Chapter 3, Annex B, Aviation Subjects–Combined Assessment PC.

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

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