EO M336.01 – DESCRIBE PROPERTIES OF THE ATMOSPHERE

1. **Performance.** Describe Properties of the Atmosphere.

2. **Conditions**

   a. Given:

      (1) Supervision, and

      (2) Assistance as required.

   b. Denied: N/A.

   c. Environmental: Classroom or training area large enough to accommodate the entire group.

3. **Standard.** The cadet shall describe:

   a. the composition of the atmosphere,

   b. the divisions of the atmosphere, and

   c. the International Civil Aviation Organization (ICAO) standard atmosphere.

4. **Teaching Points**

TP	Description	Method	Time	Ref
TP1	Describe the composition of the atmosphere, to include: a. the breakdown of the major gases, and b. the importance of water vapour.	Interactive Lecture	5 min	C3-116 (p. 123)
TP2	Illustrate the divisions of the atmosphere, to include: a. the troposphere, b. the stratosphere, c. the mesosphere, and d. the thermosphere.	Interactive Lecture	10 min	C3-116 (p. 123, p. 124)
TP3	Explain ICAO standard atmosphere, to include: a. the basis of ICAO standards for North America, and b. the assumptions for standard atmosphere in North America.	Interactive Lecture	5 min	C3-116 (p. 124)
TP4	Explain the properties of the atmosphere, to include: a. mobility, capacity for expansion, and capacity for compression, and b. factors affecting the properties of the atmosphere.	Interactive Lecture	5 min	C3-116 (p. 123)

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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 introduce the cadet to the properties of the atmosphere.

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,

   b. Tennis ball or globe of similar size, and

   c. Four clear plastic bowls of increasing size (the smallest being large enough to fit over the globe with clearance).

9. **Learning Aids.** N/A.

10. **Test Details.** This EO is assessed IAW Chapter 3, Annex B, Appendix 5, (Aviation Subjects – Combined Assessment PC).

11. **Remarks.** N/A.

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