EO M436.02 – DESCRIBE AIR MASSES AND FRONTS

1. **Performance**: Describe Air Masses and Fronts

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 describe air masses and fronts, to include:

   a. weather in an air mass,

   b. types of fronts, and

   c. frontal weather.

4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Explain weather in an air mass.	Interactive Lecture	10 min	C3-116 (p. 140)
TP2	Define and explain types of fronts.	Interactive Lecture	15 min	C3-116 (p. 140) C3-334
TP3	Conduct an in-class activity to describe types of fronts and associated weather, to include: a. warm front, b. cold front, c. stationary front, d. occluded fronts, and e. upper fronts.	In-Class Activity	55 min	A3-044 (pp. 7-12 to 7-15) C3-116 (pp. 142–145)

5. **Time**:

a.	Introduction / Conclusion:	10 min
b.	Interactive Lecture:	25 min
c.	In-Class Activity:	55 min
d.	Total:	90 min

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Verify against the official publication.

6. **Substantiation**:

   a. An interactive lecture was chosen for TPs 1 and 2 to orient the cadets to air masses and fronts and generate interest.

   b. An in-class activity was chosen for TP 3 as it is an interactive way to present types of fronts and associated weather.

7. **References**:

   a. A3-044 CFACM 2-700 Air Command. (2001). *Air Command weather manual*. Ottawa, ON: Department of National Defence.

   b. 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.

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

8. **Training Aids**:

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

   b. Two thermos / cooler / bottle,

   c. Two baby food jars,

   d. Red and blue food colouring,

   e. Index card / plastic coated paper, and

   f. Fronts information sheets.

9. **Learning Aids**:

   a. Pen / pencil,

   b. Coloured pencils / markers, and

   c. Fronts worksheets.

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

11. **Remarks**:

   a. It is recommended that the three periods required for this EO be scheduled consecutively.

   b. Cadets who are qualified Advanced Aviation may assist with this instruction.

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