EO M336.02 – EXPLAIN THE FORMATION OF CLOUDS

1. **Performance.** Explain the Formation of Clouds.

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 explain the formation of clouds, to include:

   a. the classification of clouds,

   b. air stability, and

   c. lifting agents (process).

4. **Teaching Points**

TP	Description	Method	Time	Ref
TP1	Explain that clouds can be classified based on: a. types of formation, and b. cloud height, to include: 1. low clouds, 2. middle clouds, 3. high clouds, and 4. clouds of vertical development.	Interactive Lecture	5 min	A3-044 (p. 8-19, p. 8-20) C3-116 (p. 124, p. 125)
TP2	Explain air stability, to include: a. stable air, and b. unstable air.	Interactive Lecture	5 min	A3-044 (p. 4-2) C3-116 (p. 138, p. 139)
TP3	Explain lifting agents, to include: a. convection, b. orographic lift, c. frontal lift, d. mechanical turbulence, and e. convergence.	Interactive Lecture	10 min	A3-044 (p. 2-10) C3-116 (p. 126, p. 127, p. 139)
TP4	Describe cloud formation by: a. relating lifting agents to air stability; and b. relating air stability to types of formation.	Interactive Lecture	5 min	

Unofficial convenience copy of A-CR-CCP-803/PG-001, cached 2026-11-08 from https://app.cadets.gc.ca/cadet-publications/A-CR-CCP-803-PG-001/A-CR-CCP-803-PG-001.pdf.
Verify against the official publication.

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 concepts of cloud formation.

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.

8. **Training Aids**

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

   b. Environment Canada Cloud Chart.

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.

Unofficial convenience copy of A-CR-CCP-803/PG-001, cached 2026-11-08 from https://app.cadets.gc.ca/cadet-publications/A-CR-CCP-803-PG-001/A-CR-CCP-803-PG-001.pdf.
Verify against the official publication.