EO M324.04 – PREDICT WEATHER

1. **Performance.** Predict Weather.

2. **Conditions**

   a. Given:

      (1) Supervision, and

      (2) Assistance as required.

   b. Denied: N/A.

   c. Environmental: Field setting, during daylight hours.

3. **Standard.** The cadet shall predict weather for a 24-hour period by:

   a. tracking cloud formations; and

   b. relating observations to weather theory.

4. **Teaching Points**

TP	Description	Method	Time	Ref
TP1	Describe weather indicators, to include: a. clouds, to include: (1) cumulus, (2) altocumulus, (3) stratocumulus, (4) cirrus, (5) cirrostratus, and (6) nimbostratus; b. signs of bad weather, c. signs of good weather, d. thunderstorms, to include: (1) lightning, (2) ground lightning, (3) thunder, and (4) calculate the speed of an approaching storm; e. action to take in the event of a thunderstorm, to include: (1) avoid high points, (2) avoid running, (3) stay low in open areas, (4) avoid metal objects, and (5) avoid grouping together; f. wind, and	Interactive Lecture	10 min	C0-111 (pp. 609–612) C2-157 C2-162

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TP	Description	Method	Time	Ref
	g. weather lore, to include: (1) nature, (2) plants, (3) animals, and (4) humans.			
TP2	Explain weather systems, to include: a. fronts, and b. highs and lows.	Interactive Lecture	5 min	C0-111 (pp. 616–623)
TP3	Have the cadets predict weather for the next 24-hour period.	Practical Activity	10 min	

5. **Time**

a.	Introduction/Conclusion:	5 min
b.	Interactive Lecture:	15 min
c.	Practical Activity:	10 min
d.	Total:	30 min

6. **Substantiation**

a. An interactive lecture was chosen for TPs 1 and 2 to introduce the cadet to weather fronts and weather indicators that will influence predicting weather.

b. A practical activity was chosen for TP 3 as it is an interactive way to introduce cadets to predicting weather in a safe, controlled environment. This activity contributes to the development of survival skills and knowledge in a fun and challenging setting.

7. **References**

a. C0-111 (ISBN 0-9740820-2-3) Tawrell, P. (2002). *Camping and Wilderness Survival: The Ultimate Outdoors Book*. Green Valley, ON: Paul Tawrell.

b. C2-157 The Old Farmer's Almanac. *Cricket Chirps to Temperature*. Retrieved February 1, 2008, from http://www.almanac.com/outdoors/crickets.php.

c. C2-162 Clouds R Us.com-Weather Features. *Weather Lore*. Retrieved February 1, 2008, from http://www.rcn27.dial.pipex.com/cloudsrus/lore.html.

8. **Training Aids.** N/A.

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

10. **Test Details.** This EO is assessed IAW Chapter 3, Annex B, Appendix 7 (324 EC-04).

11. **Remarks**

a. This EO should be conducted during the allocated Bivouac FTX.

b. Time shall be provided during a corps FTX to allow cadets to practice the skill of predicting weather.

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