EO C436.03 – ANALYZE WEATHER INFORMATION

1. **Performance**: Analyze Weather Information

2. **Conditions**:

   a. Given:

      (1) Aviation reports and forecasts,

      (2) Supervision, and

      (3) Assistance as required.

   b. Denied: Nil.

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

3. **Standard**: The cadet shall analyze weather information by reading:

   a. aviation routine weather reports (METARs),

   b. aerodrome forecasts (TAFs),

   c. upper winds and temperature forecasts (FDs), and

   d. graphic area forecasts (GFAs).

4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Describe a METAR, to include: a. definition, b. frequency of reports, c. special weather reports (SPECI), and d. where METARs are available.	Interactive Lecture	5 min	C2-044 (p. 144) C3-116 (p. 160)
TP2	Familiarize the cadets with METAR terminology, to include: a. report type, b. location indicator, c. date and time of observation, d. report modifier, e. wind, f. prevailing visibility, g. runway visual range, h. present weather, i. sky conditions, j. temperature and dewpoint, k. altimeter setting, l. recent weather,	Interactive Lecture	15 min	C2-044 (pp. 143–147) C3-116 (pp. 160–163)

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TP	Description	Method	Time	Refs
	m. wind shear, and n. remarks.			
TP3	Describe a TAF, to include: a. definition, b. issue and validity, and c. where TAFs are available.	Interactive Lecture	5 min	C2-044 (p. 135) C3-116 (p. 167)
TP4	Familiarize the cadets with TAF terminology, to include: a. report type, b. location indicator, c. date and time of origin, d. period of validity, e. wind, f. low-level wind shear, g. prevailing visibility, h. significant weather, i. sky condition, j. change groups, and k. remarks.	Interactive Lecture	15 min	C2-044 (pp. 136–139) C3-116 (pp. 167–169)
TP5	Describe an FD, to include: a. definition, b. decoding, and c. where FDs are available.	Interactive Lecture	5 min	C2-044 (p. 140) C3-116 (p. 169)
TP6	Describe a GFA, to include: a. definition, b. issue and validity, c. coverage area, d. units of measure, e. abbreviations and symbols, and f. where GFAs are available.	Interactive Lecture	10 min	C2-044 (p. 120) C3-116 (p. 166)
TP7	Familiarize the cadets with GFA Clouds and Weather Chart layout, to include: a. title box, b. legend box, c. comments box, and d. weather information section, to include: 1. synoptic features, 2. clouds,	Interactive Lecture	15 min	C2-044 (pp. 120–124) C3-116 (pp. 166–167)

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TP	Description	Method	Time	Refs
	3. surface-based layers, 4. visibility, 5. weather and obstructions to vision, 6. isobars, and 7. surface winds.			
TP8	Conduct an activity to have the cadets read METARs, TAFs, FDs and GFA Clouds and Weather Charts.	In-Class Activity	15 min	

5. **Time**:

a.	Introduction / Conclusion:	5 min
b.	Interactive Lecture:	70 min
c.	In-Class Activity	15 min
d.	Total:	90 min

6. **Substantiation**:

   a. An interactive lecture was chosen for TPs 1–7 to introduce weather reports and forecasts, to give the cadets the basic material they need to decode and analyze the information and to generate interest.

   b. An in-class activity was chosen for TP 8 as it is an interactive way for the cadets to practice analyzing weather information under supervision.

7. **References**:

   a. C2-044 Transport Canada. (2008). *Aeronautical information manual*. Retrieved September 29, 2008, from http://www.tc.gc.ca/publications/EN/TP14371/PDF/HR/TP14371E.PDF

   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 / presentation area, and

   b. Recent local METARs, TAFs, FDs and GFAs.

9. **Learning Aids**:

   a. Handout of sample METARs and SPECIs,

   b. Handout of sample TAFs,

   c. Handout of sample FDs,

   d. Handout of sample GFAs,

   e. Handout of the World Meteorological Organization (WMO) code chart, and

   f. Handout of the aviation forecast abbreviations chart.

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10. **Test Details**: Nil.

11. **Remarks**:

    a. Recent METARs, TAFs, FDs and GFAs can be found at http://www.flightplanning.navcanada.ca. Click on the METAR / TAF, UPR WNDS (FDs), or Graphical FA icon and choose the desired region.

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

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

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