EO M122.03 – INTERPRET CONTOUR LINES

1. **Performance:** Interpret Contour Lines

2. **Conditions:**

   a. Given:

      (1) Topographical / military maps,

      (2) Supervision, and

      (3) Assistance as required.

   b. Denied: Nil.

   c. Environmental: Field setting, during daylight hours.

3. **Standard:** IAW B-GL-382-005-FP-001, *Military Training, Volume 8, Maps, Field Sketching and Compasses*, the cadet shall interpret contour lines in order to relate the actual shape of the ground to what is portrayed on a map.

4. **Teaching Points:**

TP	Description	Method	Time	Refs
TP1	Explain and demonstrate how contour lines indicate the shape of the ground, to include: a. relief, b. contour lines and intervals, c. the shape of the ground, and d. types of slopes, to include: 1. steep (lines spaced closely together), 2. gentle (lines spaced further apart), 3. uniform (lines spaced equally), 4. convex (gentle at top, steep at bottom), 5. concave (steep at top, gentle at bottom), 6. spurs (extends from a slope), and 7. re-entrants (cuts back into a slope).	Interactive lecture	25 min	A2-004 (Ch 5, art 511 to 512)

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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 orient the cadets to the interpreting of contour lines.

7. **Reference:** A2-004 B-GL-382-005-FP-001 Canadian Forces. (1976). *Maps, fields, sketching, and compasses* (Vol. 8). Ottawa, ON: The Department of National Defence.

8. **Training Aids:**

   a. Topographical / military maps, and

   b. Relief map training aid.

9. **Learning Aids:** Topographical / military map.

10. **Test Details:** Nil.

11. **Remarks:** This lesson shall be taught in an outdoor setting. The instructor should use actual elevation and relate it to the contour lines on the map. Although the use of simple models may help, it is not a substitute to outdoor instruction.

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