EO C390.02 – INTERPRET CONTOUR LINES

1. **Performance.** Interpret Contour Lines.

2. **Conditions**

   a. Given:

      (1) Contour line worksheets,

      (2) Supervision, and

      (3) Assistance as required.

   b. Denied: N/A.

   c. Environmental: Field setting during the day.

3. **Standard.** IAW B-GL-382-005/PT-001, 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	Ref
TP1	Explain how contour lines are interpreted to 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 the top, steep at the bottom), 5. concave (steep at the top, gentle at the bottom), 6. spurs (extends from a slope), and 7. re-entrants (cuts back into a slope).	Interactive Lecture	15 min	A2-041 (pp. 27–31)
TP2	Have the cadets interpret contour lines.	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

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6. **Substantiation**

   a. An interactive lecture was chosen for TP 1 to illustrate to the cadets how to interpret contour lines.

   b. A practical activity was chosen for TP 2 as it is an interactive way to introduce cadets to interpreting contour lines in a safe, controlled environment. This activity contributes to the development of ground navigation skills and knowledge in a fun and challenging setting.

7. **References.** A2-041 B-GL-382-005/PT-001 Canadian Forces. (2006). *Maps, Field Sketching, Compasses and the Global Positioning System*. Ottawa, ON: Department of National Defence.

8. **Training Aids**

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

   b. Contour line worksheets.

9. **Learning Aids.** Contour line worksheets.

10. **Test Details.** N/A.

11. **Remarks.** N/A.

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