EO C422.05 – DETERMINE LOCATION USING RESECTION

1. **Performance**:Determine Location Using Resection

2. **Conditions**:

   a. Given:

      (1) Topographical map of the area being used,

      (2) Compass,

      (3) Pencil,

      (4) Supervision, and

      (5) Assistance as required.

   b. Denied: Nil.

   c. Environmental: Field setting, during daylight hours.

3. **Standard**:IAW B-GL-382-005/PT-00, *Maps, Field Sketching, Compasses and the Global Positioning System*, the cadet shall determine their location using resection, within +/- 500 m.

4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Explain, demonstrate and have the cadets determine their location using resection by: a. calculating the current declination of the topographical map; b. setting the current declination on the compass; c. locating three prominent objects; d. identifying the location of the three prominent objects on the topographical map; e. marking the three prominent objects on the topographical map; f. determining the magnetic bearing to each prominent object using a compass; g. determining the back bearing for each prominent object; h. plotting each back bearing on the topographical map by: 1. placing the compass on the topographical map and pointing it in the direction of travel; 2. lining up the meridian lines on the compass with the easting lines on the map by rotating the compass, ensuring that the edge of the compass is always in contact with the prominent object;	Demonstration and Performance	50 min	A2-041 (pp. 78–84)

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TP	Description	Method	Time	Refs
	3. drawing a line along the edge of the compass extending from the object in the direction of the back bearing; and 4. repeating Steps 1–3 for the remaining prominent objects; and i. determining location based on the intersection of the lines or the centre of the triangle created.			

5. **Time**:

a. Introduction / Conclusion:	10 min
b. Demonstration and Performance:	50 min
c. Total:	60 min

6. **Substantiation**:A demonstration and performance was chosen for this lesson as it allows the instructor to explain and demonstrate the skill of determining location using resection while providing an opportunity for the cadets to practice the skill under supervision.

7. **References**:A2-041 B-GL-382-005/PT-001 Directorate of Army Doctrine 8. (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) appropriate for the classroom / training area,

   b. Topographical map of the area being used,

   c. Compass,

   d. Pencil sharpener, and

   e. Pencil.

9. **Learning Aids**:

   a. Topographical map of the area being used,

   b. Compass, and

   c. Pencil.

10. **Test Details**:Nil.

11. **Remarks**:Nil.

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