EO M222.06 – FOLLOW A MAGNETIC BEARING POINT TO POINT

1. **Performance**: Follow a Magnetic Bearing Point to Point

2. **Conditions**:

   a. Given:

      (1) a prepared route;

      (2) topographical map;

      (3) compass;

      (4) supervision; and

      (5) assistance as required.

   b. Denied: N/A.

   c. Environmental: Field setting during daylight hours, during a navigation/trekking FTX.

3. **Standard**: In accordance with B-GL-382-005/PT-001, the cadet shall follow a bearing point to point, to include:

   a. determining the magnetic bearing of a prominent object;

   b. plotting and measuring a magnetic bearing on a map; and

   c. following a set magnetic bearing from point to point.

4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Practice determining the magnetic bearing of a prominent object, using the following steps: a. Check and set the predetermined declination on the compass. b. Hold the compass at eye level, arms length, and turn to face the prominent object. c. Aim at the object using the compass sight, ensuring the sighting line is in line with the index pointer. d. Adjust the compass cover so the compass dial is seen in the sighting mirror. e. Look in the mirror and turn the compass dial until the magnetic needle is over the orienting arrow. f. Read the number on the compass dial at the luminous index pointer.	Demonstration and Performance	10 min	A2-041 (pp. 69 and 70)

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TP	Description	Method	Time	Refs
TP2	Explain, demonstrate and have cadets practice taking a magnetic bearing on a map by: a. setting the predetermined declination on the compass; b. identifying and marking the start (point A) and finish (point B) points on a map; c. drawing a plotting ray from point A to point B; d. laying the fully opened compass with the edge of the compass base plate along the plotting ray, and the sighting arrow pointed in the direction of travel (point A to point B); e. holding the compass in place, rotate the compass dial so that the compass meridian lines align with the easting lines on the map, ensuring north on the dial indicates north on the map; and f. reading the bearing at the luminous index pointer.	Demonstration and Performance	15 min	A2-041 (p. 70)
TP3	Using a map and compass, in groups of four to six, cadets will follow a magnetic bearing point to point during daylight. The course will consist of a minimum of six legs, approximately 100 m apart. Each cadet will take a turn following a magnetic bearing point to point.	Practical Activity	25 min	

5. **Time**:

a.	Introduction / Conclusion:	10 min
b.	Demonstration and Performance:	25 min
c.	Practical Activity:	25 min
d.	Total:	60 min (FIELD)

6. **Substantiation**:

   a. Demonstration and performance was chosen for TP1 and TP2 as it allows the instructor to explain and demonstrate following a magnetic bearing point to point while providing an opportunity for the cadets to practice following a bearing point to point under supervision.

   b. A practical activity was chosen for TP3 as it is an interactive way to allow cadets to experience following a magnetic bearing point to point in a safe, controlled environment. This activity contributes to the development of 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. Topographical map; and

   b. Compass.

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9. **Learning Aids**:

    a. Topographical map; and

    b. Compass.

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

11. **Remarks**: Prior to this lesson, using a topographical map, the instructor shall prepare a navigation route, consisting of a minimum of six legs no greater than 100 m apart in distance.

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