EO M326.04 – NAVIGATE ALONG A ROUTE USING A MAP AND COMPASS

1. **Performance.** Navigate Along a Route Using a Map and Compass.

2. **Conditions**

   a. Given:

      (1) Topographical map of the area,

      (2) Compass,

      (3) Start and end point grid references (GR),

      (4) Paper,

      (5) Pencils,

      (6) Supervision, and

      (7) Assistance as required.

   b. Denied: N/A.

   c. Environmental: Expedition centre, field setting, during daylight hours.

3. **Standard.** As a member of a group of no more than nine, the cadet shall navigate, to include:

   a. determining distance between two points on a map;

   b. determining individual pace;

   c. orienting the map using a compass;

   d. taking a magnetic bearing using a compass; and

   e. travelling on a series of bearings along a route.

4. **Teaching Points**

TP	Description	Method	Time	Ref
TP1	IAW PO 222 (Navigate Along a Route Using a Map and Compass, A-CR-CCP-702/PG-001, Chapter 4, Section 12), review navigation, to include: a. determining distance on a map by: (1) measuring point-to-point; and (2) measuring along a route; b. determining individual pace, to include: (1) pace counting method, and (2) factors that affect pacing; c. orienting a map using a compass; and d. taking a magnetic bearing by: (1) using a prominent object in sight; and (2) using a map.	Interactive Lecture	10 min	A2-041 (p. 16, p. 18, pp. 47–48, pp. 50–51, pp. 66–70, p. 76) C0-011 (pp. 52–53) C2-041 (p. 50, p. 106)

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TP	Description	Method	Time	Ref
TP2	Conduct a navigation activity, to include: a. describing bearings; b. setting declination on a compass; c. determining distance between two points on a map; d. determining individual pace; e. orienting a map using a compass; f. taking a magnetic bearing; and g. travelling on a series of bearings along a route.	Practical Activity	40 min	

5. **Time**

a.	Introduction/Conclusion:	10 min
b.	Interactive Lecture:	10 min
c.	Practical Activity:	40 min
d.	Total:	60 min

6. **Substantiation**

a. An interactive lecture was chosen for TP 1 to review navigation background material.

b. A practical activity was chosen for TP 2 as it is an interactive way to allow the cadet to experience navigation in a safe, controlled environment. This activity contributes to the development of navigation knowledge and skills in a fun and challenging setting.

7. **References**

a. 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.

b. C0-011 Canadian Orienteering Federation. (1985). *Orienteering Level Two Coaching Certification*. Ottawa, ON: Canadian Orienteering Federation.

c. C2-041 (ISBN 0-07-136110-3) Seidman, D., & Cleveland, P. (1995). *The Essential Wilderness Navigator*. Camden, ME: Ragged Mountain Press.

8. **Training Aids**

a. Topographical map of the area,

b. Compass,

c. Paper

d. Pen and pencils, and

e. Start and end point GR.

9. **Learning Aids**

a. Topographical map of the area,

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b. Compass,

c. Paper,

d. Pen and pencils, and

e. Start and end point GR.

10. **Test Details.** This EO is assessed IAW Chapter 3, Annex B, Appendix 8 (326 PC).

11. **Remarks**

a. Assistant instructors may be required for this lesson.

b. Planning details for this EO are included in Chapter 2, Annex A, Appendix 1. A sample schedule is included and should be referred to during the planning phase.

c. Expedition centres are required to select two dynamic modes of travel from EO M326.02a (Paddle a Canoe), EO M326.02b (Ride a Mountain Bike), and EO M326.02c (Hike Along a Route) to incorporate into their weekend training. Navigation may take place during the execution of any mode of travel.

d. This EO has been allocated one period in the overall course period allocation. Each expedition centre may adjust this allocation to reflect the choice of activities, facilities and available resources at the expedition centre.

e. Timings for this EO will vary. While there is a requirement for some initial training, the focus should be on having the cadets practice hiking techniques through practical application.

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