EO M322.01 – REVIEW RED STAR NAVIGATION

1. **Performance.** Review Red Star Navigation.

2. **Conditions**

   a. Given:

      (1) Topographical map,

      (2) Compass,

      (3) Supervision, and

      (4) Assistance as required.

   b. Denied: N/A.

   c. Environmental: Training area large enough to accommodate the entire group.

3. **Standard.** As a member of a group of no more than five, the cadet shall review Red Star Navigation, to include:

   a. describing bearings;

   b. identifying compass parts;

   c. setting declination;

   d. determining distance on a map;

   e. determining individual pace;

   f. orienting the map using a compass; and

   g. taking a magnetic bearing using a compass.

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), conduct a review of Red Star navigation, to include: a. identifying the points of the compass rose, to include: (1) four cardinal points, (2) four inter-cardinal points, and (3) eight intermediate points; b. discussing scales on a compass, to include: (1) degrees, and (2) mils; c. defining a bearing; d. discussing types of bearings, to include: (1) grid bearing,	Interactive Lecture	25 min	A2-041 (p. 16, p. 18, p. 47, p. 48, p. 50, p. 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
	(2) magnetic bearing, and (3) back bearing; e. identifying compass parts, to include: (1) sight, (2) compass cover, (3) sighting mirror, (4) sighting line, (5) luminous index point, (6) compass dial, (7) dial graduations, (8) orienting arrow, (9) romer 1 : 25 000, (10) compass base plate, (11) declination scale, (12) compass meridian lines, (13) magnetic needle, (14) luminous orienting points, (15) luminous index point, (16) romer 1 : 50 000, (17) safety cord or lanyard, (18) adjustable wrist lock, (19) screwdriver, and (20) declination adjustment screw; f. setting declination on a compass; g. determining distance, to include: (1) determining distance on a map by: (a) measuring point-to-point; and (b) measuring along a route; and (2) determining individual pace, to include: (a) pace counting method, and (b) factors that affect pacing; h. orienting a map using a compass; and i. taking a magnetic bearing by: (1) using a prominent object in sight; and (2) using a map.			

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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 review the basic and background material covered during Red Star navigation.

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,

   b. Compass,

   c. Paper,

   d. Pencil, and

   e. Measuring tape.

9. **Learning Aids**

   a. Topographical map (one per five cadets),

   b. Compass (one per five cadets),

   c. Paper,

   d. Pencil, and

   e. Start and end point GRs.

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

11. **Remarks**

   a. Assistant instructors may be required for this lesson.

   b. Where possible this EO should be conducted prior to the expedition exercise.

   c. This EO should be conducted during the allocated Bivouac FTX.

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