EO C422.06 – PRACTICE NAVIGATION AS A MEMBER OF A SMALL GROUP

1. **Performance**:Practice Navigation as a Member of a Small Group

2. **Conditions**:

   a. Given:

      (1) A prepared route,

      (2) Topographical map of the area being used,

      (3) Compass,

      (4) GPS receiver,

      (5) Pencil,

      (6) Supervision, and

      (7) Assistance as required.

   b. Denied: Nil.

   c. Environmental: Field setting, during daylight hours.

3. **Standard**:The cadet, as a member of a group of no more than four, shall practice navigation using a GPS receiver.

4. **Teaching Points**:The navigation activity should be structured as follows:

   a. Conduct a safety briefing to include an explanation of:

      (1) actions to be taken if a cadet becomes lost;

      (2) time limits for the activity;

      (3) boundaries;

      (4) rules and safety procedures for the activity; and

      (5) a narrative of the specific activity being conducted.

   b. Have the cadets, as members of a group of no more than four, participate in a navigation activity that will allow them to set and follow routes using a GPS receiver by:

      (1) inputting GRs into a GPS receiver;

      (2) linking POIs to establish a route in the GPS receiver; and

      (3) following the GPS receiver to each POI along the route.

   c. Conduct a debriefing where the cadets may be asked:

      (1) how they felt about the activity;

      (2) what they felt they accomplished;

      (3) what they would try to improve on if given the opportunity to complete the activity again; and

      (4) what they learned about using a GPS with a map.

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5. **Time**:

a. Introduction / Conclusion:	10 min
b. Practical Activity:	80 min
c. Subtotal:	90 min
d. Total (three sessions):	270 min

6. **Substantiation**:A practical activity was chosen for this lesson as it is an interactive way to allow the cadets to experience navigation by setting and following a route using a GPS receiver, in a safe and controlled environment. This activity contributes to physical fitness and to the development of navigation skills and knowledge in a fun and challenging setting.

7. **References**:

   a. A2-036 A-CR-CCP-121/PT-001 Director Cadets 3. (2003). *Royal Canadian Army Cadet reference book*. Ottawa, ON: Department of National Defence.

   b. 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.

   c. C1-178 Thales Navigation Inc. (2004). *Magellan eXplorist 200 GPS user manual*. San Dimas, CA: Thales Navigation Inc.

   d. C2-142 ISBN 0-7645-6933-3 McNamara, J. (2004). *GPS for dummies*. Hoboken, NJ: Wiley Publishing, Inc.

8. **Training Aids**:

   a. A prepared route,

   b. Topographical map of the area being used,

   c. Compass,

   d. GPS receiver, and

   e. Pencil sharpener.

9. **Learning Aids**:

   a. A prepared route,

   b. Topographical map of the area being used,

   c. Compass,

   d. GPS receiver,

   e. Whistle, and

   f. Pencil.

10. **Test Details**:Nil.

11. **Remarks**:

   a. If a different GPS receiver is being used for the navigation exercise, refer to the user manual for that receiver.

   b. This EO may be conducted in conjunction with Green and Red Star map and compass practice (eg, EO C122.01 [Practice Navigation as a Member of a Small Group] and EO C222.01 [Practice

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Navigation Using a Map and Compass]). When the Green and Red Star cadets practice using a map and compass, the Gold Star cadets use the GPS receiver.

c. This complementary activity can be carried out as nine periods during a supported day or over three sessions of three periods each, to a maximum of nine periods.

d. This activity provides opportunities for cadets to complete a leadership assignment as outlined in PO 403 (Act as a Team Leader).

e. Assistant instructors are required for this lesson.

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