EO M422.03 – FOLLOW A MULTI-LEG ROUTE USING A GPS RECEIVER

1. **Performance**:Follow a Multi-Leg Route Using a GPS Receiver

2. **Conditions**:

   a. Given:

      (1) GPS receiver,

      (2) Start point,

      (3) Three POIs,

      (4) Supervision, and

      (5) Assistance as required.

   b. Denied: Nil.

   c. Environmental: Field setting, during daylight hours.

3. **Standard**:IAW the GPS receiver user's manual, the cadet, in a group of no more than four, shall follow a multi-leg route using a GPS receiver.

4. **Teaching Points**:

   a. Brief the cadets prior to the start of the activity, to include an explanation of:

      (1) the objectives and the importance of the activity;

      (2) the coordinates they will require to input their routes, including start and end points and the POIs; and

      (3) any safety guidelines that must be followed while performing the activity.

   b. Have the cadets follow a multi-leg route using a GPS receiver by:

      (1) confirming that the GPS receiver is set to the correct coordinate system;

      (2) confirming that the correct map datum is set;

      (3) marking the start point, using a personalized mark;

      (4) establishing three POIs using coordinate marks;

      (5) creating a multi-leg route;

      (6) activating the route; and

      (7) navigating to each POI along the set route using the GPS receiver (within a 10-m radius).

   c. Debrief the cadets by asking:

      (1) how they felt about the activity;

      (2) what part of the activity they found difficult;

      (3) what they felt they accomplished; and

      (4) what they would try to improve if given the chance to complete the activity again.

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5. **Time**:

a. Introduction / Conclusion:	10 min
b. Practical Activity:	80 min
c. Total:	90 min

6. **Substantiation**:A practical activity was chosen for this lesson as it is an interactive way to allow cadets to experience following a multi-leg route using a GPS receiver in a safe and controlled environment.

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

8. **Training Aids**:GPS receiver.

9. **Learning Aids**:

   a. GPS receiver,

   b. Compass,

   c. Topographical map of the local area,

   d. Whistle, and

   e. Input a Multi-Leg Route in the Magellan eXplorist 200 GPS Receiver handout.

10. **Test Details**:This lesson is assessed IAW Chapter 3, Annex B, 422 PC.

11. **Remarks**:

    a. This EO shall be conducted during the allocated bivouac field training exercise.

    b. Additional instructors will be required to supervise the cadets while participating in the activity. Assistant instructors shall be randomly placed along the route to assist cadets.

    c. The type of GPS receiver may vary, refer to the owner's manual for instructions and proper methods of use.

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