EO M490.04 – NAVIGATE TO A WAYPOINT USING A GLOBAL POSITIONING SYSTEM (GPS) RECEIVER

1. **Performance**: Navigate to a Waypoint Using a Global Positioning System (GPS) Receiver

2. **Conditions**:

   a. Given:

      (1) GPS receiver,

      (2) Supervision, and

      (3) Assistance as required.

   b. Denied: Nil.

   c. Environmental: Field setting, during the day.

3. **Standard**: The cadet shall navigate to a waypoint using a GPS receiver by:

   a. turning on the GPS receiver;

   b. selecting the waypoint list;

   c. selecting a waypoint from the list; and

   d. using the GPS receiver to move to the waypoint.

4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Explain and demonstrate: a. turning on the GPS receiver; b. selecting the waypoint list; c. selecting a waypoint; and d. using the GPS receiver to move to a waypoint.	Demonstration	30 min	C2-143
TP2	Have the cadets practice navigating to a waypoint using a GPS receiver.	Practical Activity	80 min	

5. **Time**:

a.	Introduction / Conclusion:	10 min
b.	Demonstration:	30 min
c.	Practical Activity:	80 min
d.	Total:	120 min

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6. **Substantiation**:

   a. A demonstration was chosen for TP 1 as it allows the instructor to demonstrate and explain how to navigate to a waypoint using a GPS receiver.

   b. A practical activity was chosen for TP 2 as it allows the instructor to introduce the GPS receiver while providing an opportunity for the cadets to practice navigating to a waypoint using a GPS receiver under supervision.

7. **References**: C2-143 ISBN 1-58923-145-7 Featherstone, S. (2004). *Outdoor guide to using your GPS*. Chanhassen, MN: Creative Publishing International, Inc.

8. **Training Aids**:

   a. Presentation aids (eg, whiteboard / flip chart / OHP / multimedia projector) appropriate for the classroom / training area,

   b. GPS receiver with charged batteries,

   c. Waypoint containers,

   d. Waypoint locations,

   e. Hand-held radio (one per group),

   f. Waypoint form (one per group), and

   g. Pen / pencil.

   h. Prepared course

9. **Learning Aids**:

   a. GPS receiver with charged batteries (one per group),

   b. Hand-held radio with charged batteries (one per group),

   c. Waypoint form (one per group), and

   d. Pen / pencil.

10. **Test Details**: This EO is assessed IAW Chapter 3, Annex B, 490 PC.

11. **Remarks**:

   a. Several waypoints should be set up before this lesson.

   b. The waypoints should be indicated on the ground or object by a marker.

   c. The waypoints should be 200–500 m apart.

   d. Cadets who are qualified Survival Instructor may assist with this instruction.

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