EO M422.02 – SET A MULTI-LEG ROUTE USING A GPS RECEIVER

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

2. **Conditions**:

   a. Given:

      (1) GPS receiver,

      (2) Four 10-figure GRs,

      (3) Supervision, and

      (4) Assistance as required.

   b. Denied: Nil.

   c. Environmental: Field setting, during daylight hours.

3. **Standard**:IAW the GPS receiver user's manual, the cadet shall set a multi-leg route with four points of interest (POIs) using a GPS receiver by:

   a. creating four POIs;

   b. creating a route; and

   c. saving the route.

4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Identify the two types of POIs, to include: a. marked, and b. stored.	Interactive Lecture	5 min	C1-178 (pp. 14–25)
TP2	Explain, demonstrate and have the cadets: a. identifying a POI, to include: 1. location, 2. name, 3. date and time, and 4. icon / symbol; and b. creating POIs, using: 1. a quick mark, 2. a personalized mark, 3. a coordinate mark, and / or 4. a map cursor mark.	Demonstration and Performance	20 min	C1-178 (pp. 25–29)

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TP	Description	Method	Time	Refs
TP3	Discuss types of routes, to include: a. GOTO, b. multi-leg, and c. backtrack.	Interactive Lecture	5 min	C1-178 (pp. 37–46)
TP4	Explain, demonstrate and have the cadets create a GOTO route by: a. pressing GOTO; b. using the POI database to select (highlight) the POI that will be the destination; and c. pressing ENTER.	Demonstration and Performance	15 min	C1-178 (pp. 37–38)
TP5	Explain, demonstrate and have the cadets: a. create a multi-leg route; and b. activate / deactivate a multi-leg route.	Demonstration and Performance	30 min	C1-178 (pp. 41–42)
TP6	Demonstrate how to modify a multi-leg route by: a. changing destination leg of an active route; b. editing a saved route; c. reversing a route; and d. deleting a route.	Demonstration	15 min	C1-178 (pp. 41–50)
TP7	Explain, demonstrate and have the cadets: a. create a backtrack route by; and b. deactivating a backtrack route.	Demonstration and Performance	20 min	C1-178 (p. 54)

5. **Time**:

a. Introduction / Conclusion:	10 min
b. Interactive Lecture:	10 min
c. Demonstration and Performance:	85 min
d. Demonstration:	15 min
e. Total:	120 min

6. **Substantiation**:

a. An interactive lecture was chosen for TPs 1 and 3 to introduce the cadets to the features available on a GPS receiver.

b. A demonstration and performance was chosen for TPs 2, 4, 5 and 7 as it allows the instructor to explain and demonstrate how to create POIs and routes while providing the cadets the opportunity to practice these skills under supervision.

c. A demonstration was chosen for TP 6 as it allows the instructor to demonstrate the process of working a GPS receiver providing the cadets with the knowledge on how these skills can be applied in the future.

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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**:GPS receiver.

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

11. **Remarks**:

    a. For specific instruction on use of GPS receiver models, refer to the user's manual.

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

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