EO M322.03 – IDENTIFY COMPONENTS OF THE GLOBAL POSITIONING SYSTEM

1. **Performance.** Identify Components of the Global Positioning System.

2. **Conditions**

   a. Given:

      (1) GPS receiver,

      (2) Supervision, and

      (3) Assistance as required.

   b. Denied: N/A.

   c. Environmental: Classroom or training area large enough to accommodate the entire group.

3. **Standard.** The cadet shall identify the components of the GPS, to include:

   a. satellites,

   b. ground stations, and

   c. receivers.

4. **Teaching Points**

TP	Description	Method	Time	Ref
TP1	Discuss the GPS, to include: a. what the GPS is, b. how it works, and c. components, to include: (1) satellites, (2) ground stations, and (3) receivers.	Interactive Lecture	10 min	C2-142 (pp. 49–55) C2-143 (pp. 8–9)
TP2	Explain GPS terminology, to include: a. GPS, b. three-dimensional (3D) coordinate, c. assisted GPS (A-GPS), d. differential GPS (DGPS), e. latitude, f. longitude, g. triangulation, h. wide area augmentation service (WAAS), and i. waypoint.	Interactive Lecture	5 min	C2-144 (pp. 22–23)

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TP	Description	Method	Time	Ref
TP3	Discuss GPS receivers and the information they provide, to include: a. accuracy, b. time, c. location, d. speed, e. direction of travel, f. stored location, and g. cumulative data.	Interactive Lecture	10 min	C2-142 (pp. 53–58)

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 orient the cadets to the components of the GPS and to present background material.

7. **References**

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

   b. C2-143 (ISBN 1-58923-145-7) Featherstone, S. (2004). *Outdoor Guide to Using Your GPS*. Chanhassen, MN: Creative Publishing International, Inc.

   c. C2-144 (ISBN 0-07-223171-8) Broida, R. (2004). *How to do Everything With Your GPS*. Emerville, CA: McGraw-Hill.

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

9. **Learning Aids.** GPS receiver.

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

11. **Remarks.** It is recommended that this EO be instructed outside.

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