EO C340.07 – IDENTIFY GLOBAL POSITION SYSTEM (GPS) COMPONENTS

1. **Performance.** Identify Global Position System (GPS) Components.

2. **Conditions**

   a. Given:

      (1) Supervision, and

      (2) 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 GPS components, to include:

   a. satellites,

   b. control stations, and

   c. receivers.

4. **Teaching Points**

TP	Description	Method	Time	Ref
TP1	Explain how the GPS operates, to include: a. the three components of GPS, to include: 1. satellites, 2. control stations, and 3. receivers; b. trilateration from three satellites, and c. timing radio signals.	Interactive Lecture	25 min	A2-041 C3-243 C3-244
TP2	Describe the constellation of 24 GPS satellites, to include: a. orbit characteristics, b. station-keeping manoeuvres, and c. on-board GPS equipment.	Interactive Lecture	5 min	C3-243 C3-244
TP3	Describe the network of earth-based control stations, to include: a. five monitor stations, b. three ground antennas, and c. the master control station (MCS).	Interactive Lecture	5 min	C3-243 C3-244
TP4	Describe the user receivers, to include: a. time correction for the user receiver, and b. user receiver applications, to include: 1. locating,	Interactive Lecture	15 min	C3-243 C3-244

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TP	Description	Method	Time	Ref
	2. navigating, 3. tracking, 4. mapping, and 5. timing.			

5. **Time**

a.	Introduction/Conclusion:	10 min
b.	Interactive Lecture:	50 min
c.	Total:	60 min

6. **Substantiation.** An interactive lecture was chosen for this lesson to orient the cadets to GPS components, to generate interest, and emphasize the teaching points.

7. **References**

a. A2-041 B-GL-382-005/PT-001 Canadian Forces. (2006). *Maps, Field Sketching, Compasses and the Global Positioning System*. Ottawa, ON: Department of National Defence.

b. C3-243 US Naval Observatory. (2008). *USNO GPS Timing Operations*. Retrieved February 10, 2008, from http://tycho.usno.navy.mil/gps.html.

c. C3-244 Trimble Navigation Limited. (2006). *GPS Tutorial*. Retrieved February 10, 2008, from http://www.trimble.com/gps/index.shtml.

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

9. **Learning Aids.** N/A.

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

11. **Remarks.** N/A.

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