EO M422.01 – REVIEW SILVER STAR NAVIGATION

1. **Performance**:Review Silver Star Navigation

2. **Conditions**:

    a. Given:

        (1) GPS receiver,

        (2) Topographical map,

        (3) Supervision, and

        (4) Assistance as required.

    b. Denied: Nil.

    c. Environmental: Field setting, during daylight hours.

3. **Standard**:The cadet, as a member of a group of no more than five, shall review Silver Star navigation, to include:

    a. identifying the components of a GPS;

    b. identifying the features of a GPS receiver;

    c. setting the map datum on a GPS receiver; and

    d. identifying location using a GPS receiver, to include:

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

        (2) locating the geographical position screen;

        (3) reading the grid reference (GR); and

        (4) plotting the GR on the topographical map.

4. **Teaching Points**:

    a. Set up three learning stations to have the cadets:

        (1) identify how satellites, ground stations, and receivers work and the features of a GPS receiver, such as:

            (a) components, to include:

                i. antenna,

                ii. screen,

                iii. battery compartment, and

                iv. buttons; and

            (b) screens, to include:

                i. satellite status,

                ii. menu,

                iii. position,

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iv. compass navigation, and

v. map;

(2) identify and set map datum from a topographical map, to include:

(a) completing the process for confirming the correct coordinate system, to include:

i. identifying Military Grid Reference System (MGRS) grid system on a topographical map;

ii. locating the grid zone designator; and

iii. confirming the 100 000-m square identifier; and

(b) locating the map datum from a topographical map and setting the map datum on a GPS receiver; and

(3) identify location using a GPS receiver, to include:

(a) confirming that the correct coordinate system is set on the GPS receiver;

(b) locating the geographical position screen;

(c) reading the GR;

(d) plotting the eight-figure GR on the topographical map.

b. Brief the cadets on the activity.

c. Start the activity.

d. Rotate the cadets through the learning stations.

e. Debrief the cadets at the end of the activity.

5. **Time**:

a. Introduction / Conclusion:	10 min
b. Practical Activity:	50 min
c. Total:	60 min

6. **Substantiation**:A practical activity was chosen for this lesson as it is an interactive way for the cadets to develop navigation skills and knowledge in a safe and controlled environment. This activity contributes to the development of navigation skills and knowledge in a fun and challenging setting.

7. **References**:

a. A2-036 A-CR-CCP-121/PT-001 Director Cadets 3. (2003). *Royal Canadian army cadet reference book*. Ottawa, ON: Department of National Defence.

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

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

d. C2-144 ISBN 0-07-223171-8 Broida, R. (2004). *How to do everything with your GPS*. Emerville, CA: McGraw-Hill.

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8. **Training Aids**:

    a. GPS receiver,

    b. Topographical map, and

    c. Navigation worksheet.

9. **Learning Aids**:

    a. GPS receiver,

    b. Topographical map,

    c. Navigation worksheet,

    d. Paper, and

    e. Pencil.

10. **Test Details**:Nil.

11. **Remarks**:

    a. The navigation activity will consist of three learning stations. The cadet will rotate through the stations every 15 minutes. There will be 5 minutes provided at the end of the lesson to answer questions or provide additional instruction on areas where cadets experienced difficulty.

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

    c. Assistant instructors are required for this lesson, at each learning station.

    d. Topographical maps have not been provided, so the cadet can use local area topographical maps.

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