EO C322.02 – IDENTIFY FACTORS THAT IMPACT NAVIGATION IN THE WINTER

1. **Performance.** Identify Factors That Impact Navigation in the Winter.

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 factors that impact navigation in the winter, to include:

   a. visibility,

   b. weather conditions, and

   c. individual navigation skill.

4. **Teaching Points**

TP	Description	Method	Time	Ref
TP1	Conduct a brainstorming activity where the cadet will discuss how terrain features are affected in the winter, to include: a. trails/footpaths, b. trail markers, to include: (1) cairns, (2) paint blazes; and c. prominent landmarks, such as: (1) ridges, (2) peaks, and (3) communication towers.	In-Class Activity	15 min	C2-160 (pp. 73–74, pp. 87–90) C2-161 (p. 111)
TP2	Discuss the three most common factors that can reduce visibility, to include: a. darkness, b. blowing snow, and c. falling snow.	Interactive Lecture	10 min	C2-158 (p. 247)

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TP	Description	Method	Time	Ref
TP3	Identify weather conditions and discuss their impacts on navigation in the winter, to include: a. wind, b. fog, c. snow, d. ground blizzards, e. falling snow blizzards, and f. whiteouts.	Interactive Lecture	10 min	C2-158 (pp. 247–249) C2-160 (pp. 84–90, pp. 107–116)
TP4	Discuss the application of individual navigation skills in the winter, to include: a. using a topographical map; b. identifying objects on the ground with objects on the map; c. taking bearings; d. pacing; e. planning a route; and f. enforcing group travel techniques, to include: (1) staying within sight of each other; (2) assigning numbers; and (3) taking breaks as required.	Group Discussion	20 min	C2-158 (p. 247, p. 248) C2-160 (pp. 71–75, pp. 84–90)
TP5	Conduct an activity where the cadet will practice navigating in the winter.	Practical Activity	60 min	

5. **Time**

a.	Introduction/Conclusion:	5 min
b.	In-Class Activity:	15 min
c.	Interactive Lecture:	20 min
d.	Group Discussion:	20 min
e.	Practical Activity:	60 min
f.	Total:	120 min

6. **Substantiation**

a. An in-class activity was chosen for TP 1 as an interactive way to provoke thought and stimulate an interest on how terrain features are affected in the winter.

b. An interactive lecture was chosen for TPs 2 and 3 to present background information to the cadet on the factors which affect visibility and weather conditions which can impact navigation in the winter.

c. A group discussion was chosen for TP 4 as it allows the cadet to interact with their peers and share their knowledge, experiences, opinions and feelings about navigating in the winter.

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d. A practical activity was chosen for TP 5 as it is an interactive way to allow the cadet to experience navigating in the winter. This activity contributes to the development of winter navigational skills in a fun and challenging setting under supervision.

7. **References**

a. C2-158 (ISBN 0-07-136417-X) Conover, G., & Conover, A. (2001). *The Winter Wilderness Companion: Traditional and Native American Skills for the Undiscovered Season*. Camden, ME: Ragged Mountain Press.

b. C2-160 (ISBN 0-89886-947-1) Lanza, M. (2003). *Winter Hiking and Camping: Managing for Comfort and Safety*. Emmaus, PA: The Mountaineers Books.

c. C2-161 (ISBN 1-878239-09-0) Gorman, S. (1991). *AMC Guide to Winter Camping: Wilderness Travel and Adventure in the Cold-Weather Months*. Boston, MA: Appalachian Mountain Club Books.

8. **Training Aids**

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

b. Topographical map of the area,

c. Compass, and

d. Prepared navigation route.

9. **Learning Aids**

a. Flip chart paper (one per five cadets),

b. Markers (one per five cadets),

c. Topographical map of the area (one per five cadets), and

d. Compass (one per five cadets).

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

11. **Remarks.** Corps may choose to schedule and instruct only TPs 1–4.

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