EO M303.06 – SOLVE PROBLEMS

1. **Performance:** Solve Problems.

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:

   a. describe problem-solving methods;

   b. select a problem-solving method; and

   c. solve a problem using the selected method.

4. **Teaching Points:**

TP	Description	Method	Time	Ref
TP1	Review the steps for logical analysis, to include: a. confirming the task; b. identifying the problem; c. determining the critical factor; d. developing alternative solutions; e. comparing alternative solutions; f. determining the best solution; g. implementing the solution; and h. evaluating the plan and the implementation.	Interactive Lecture	5 min	C0-135 (pp. 221–223)
TP2	Explain the steps in the IRISE method of problem solving, to include: a. identifying the problem; b. researching all of the options; c. identifying the consequences of the options; d. selecting the most appropriate option; and e. evaluating the decision.	Interactive Lecture	10 min	C0-115 (p. 96)

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TP	Description	Method	Time	Ref
TP3	Explain the steps in the TEACH method of problem solving, to include: a. time, b. exposure, c. assistance, d. creativity, and e. hit it.	Interactive Lecture	10 min	C0-134 (p. 101)
TP4	Conduct an activity where the cadets will select a problem-solving method and apply it to a scenario.	In-Class Activity	25 min	C0-115 (p. 45, p. 46)

5. **Time:**

a.	Introduction/Conclusion:	10 min
b.	Interactive Lecture:	25 min
c.	In-Class Activity:	25 min
d.	Total:	60 min

6. **Substantiation:**

   a. An interactive lecture was chosen for TPs 1 to 3 to review logical analysis and orient the cadets to additional problem-solving methods.

   b. An in-class activity was chosen for TP 4 as an interactive way to provoke thought and stimulate interest among cadets about problem solving.

7. **References:**

   a. C0-115 (ISBN 0-7879-4059-3) van Linden, J. A., & Fertman, C. I. (1998). *Youth Leadership*. San Francisco, CA: Jossey-Bass Inc., Publishers.

   b. C0-134 (ISBN 0-7852-7440-5) Maxwell, J. (1999). *The 21 Indispensable Qualities of a Leader: Becoming the Person Others Will Want to Follow*. Nashville, TN: Thomas Nelson Publishers.

   c. C0-135 (ISBN 0-7645-5176-0) Loeb, M., & Kindel, S. (1999). *Leadership for Dummies*. New York, NY: Hungry Minds, Inc.

8. **Training Aids:**

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

   b. Problem-solving scenarios.

9. **Learning Aids:**

   a. Problem-solving scenarios, and

   b. Pen/pencil.

10. **Test Details:** This EO is assessed IAW Chapter 3, (303 PC).

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

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