EO C437.01 – SOLVE NAVIGATION PROBLEMS WITH A MANUAL FLIGHT COMPUTER

1. **Performance**: Solve Navigation Problems With a Manual Flight Computer

2. **Conditions**:

   a. Given:

      (1) Manual flight computer,

      (2) Supervision, and

      (3) Assistance as required.

   b. Denied: Nil.

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

3. **Standard**: The cadet shall solve navigation problems with a manual flight computer by:

   a. converting units of measure; and

   b. calculating:

      (1) speed,

      (2) distance, and

      (3) time.

4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Demonstrate how to use a manual flight computer to convert units of measure and have the cadets practice converting units of measure.	Demonstration and Performance	25 min	C3-116 (pp. 199–200)
TP2	Demonstrate how to use a manual flight computer to calculate speed, distance, and time and have the cadets practice calculating speed, distance, and time.	Demonstration and Performance	25 min	C3-116 (pp. 199–200)

5. **Time**:

a.	Introduction / Conclusion:	10 min
b.	Demonstration and Performance:	50 min
c.	Total:	60 min

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Verify against the official publication.

6. **Substantiation**: A demonstration and performance was chosen for this lesson as it allows the instructor to explain and demonstrate solving navigation problems with a manual flight computer while providing an opportunity for the cadets to practice this skill under supervision.

7. **References**: C3-116 ISBN 0-9680390-5-7 MacDonald, A. F., & Peppler, I. L. (2000). *From the ground up: Millennium edition*. Ottawa, ON: Aviation Publishers Co. Limited.

8. **Training Aids**:

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

   b. Manual flight computer.

9. **Learning Aids**:

   a. Pen / pencil,

   b. Manual flight computer, and

   c. Navigation problems worksheet.

10. **Test Details**: Nil.

11. **Remarks**:

    a. Assistant instructors may be required for this lesson.

    b. Cadets who are qualified Advanced Aviation may assist with this instruction.

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