EO M423.02 – USE NAVIGATION INSTRUMENTS

1. **Performance**: Use Navigation Instruments

2. **Conditions**:

   a. Given:

      (1) Chart 3441 *Haro Strait, Boundary Pass and / et Satellite Channel*,

      (2) Navigation instruments,

      (3) Supervision, and

      (4) Assistance as required.

   b. Denied: Nil.

   c. Environmental: Classroom or training area large enough to accommodate the entire group with tables suitable for chartwork.

3. **Standard**: The cadet shall use navigation instruments, to include:

   a. pencil,

   b. eraser,

   c. parallel ruler,

   d. dividers,

   e. drafting compass, and

   f. speed-time-distance calculator.

4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Demonstrate and have the cadets practice using the following navigation instruments: a. pencil, b. eraser, c. parallel ruler, d. dividers, e. drafting compass, and f. speed-time-distance calculator.	Demonstration and Performance	50 min	C1-163 (pp. 61–64)

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 the skills the cadets are expected to acquire while providing an opportunity for the cadets to practice the skills under supervision.

7. **References**: C1-163 ISBN 0-07-137226-1 Brogdon, B. (1995). *Boat navigation for the rest of us* (2nd ed.). Camden, ME: International Marine.

8. **Training Aids**:

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

   b. Chart 3441 *Haro Strait, Boundary Pass and / et Satellite Channel*, and

   c. Navigation instruments.

9. **Learning Aids**:

   a. Chart 3441 *Haro Strait, Boundary Pass and / et Satellite Channel* (one per two cadets),

   b. Navigation instruments (one set per two cadets),

   c. Distances worksheet, and

   d. Plotting exercises.

10. **Test Details**: This EO is assessed IAW Chapter 3, Annex B, 423 PC.

11. **Remarks**: Nil.

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