EO M423.03 – DESCRIBE LATITUDE AND LONGITUDE

1. **Performance**: Describe Latitude and Longitude

2. **Conditions**:

   a. Given:

      (1) Chart 3441 *Haro Strait, BoundaryPass 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:

   a. describe latitude and longitude; and

   b. measure distances on a chart.

4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Describe latitude and longitude.	Interactive Lecture	20 min	C1-165 (pp. 2–3)
TP2	Conduct an activity where the cadets will: a. determine the latitude and longitude of a given point; and b. plot position on a chart using a given latitude and longitude.	Practical Activity	50 min	C1-165 (pp. 85–89)
TP3	Explain, demonstrate and have the cadets measure distances on a chart.	Demonstration and Performance	40 min	C1-165 (pp. 103–106)

5. **Time**:

a.	Introduction / Conclusion:	10 min
b.	Interactive Lecture:	20 min
c.	Practical Activity:	50 min
d.	Demonstration and Performance:	40 min
e.	Total:	120 min

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6. **Substantiation**:

   a. An interactive lecture was chosen for TP 1 to introduce latitude and longitude to the cadets.

   b. A practical activity was chosen for TP 2 as it is an interactive way to allow cadets to determine the latitude and longitude of given points and locate positions on a chart using different methods. This activity contributes to the development of navigation skills in a fun and challenging way.

   c. A demonstration and performance was chosen for TP 3 as it allows the instructor to explain and demonstrate measuring distances on a chart while providing an opportunity for the cadets to practice the skill under supervision.

7. **References**: C1-165 ISBN 1-57409-052-6 Larkin, F. (1998). *Basic coastal navigation*. Dobbs Ferry, NY: Sheridan House Inc.

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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