EO M337.02 – DETERMINE A POSITION ON A VISUAL FLIGHT RULES (VFR) NAVIGATIONAL CHART (VNC)

1. **Performance.** Determine a Position on a Visual Flight Rules (VFR) Navigational Chart (VNC).

2. **Conditions**

   a. Given:

      (1) VNC,

      (2) Supervision, and

      (3) 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 determine a position on a VNC by:

   a. identifying the earth's graticule;

   b. recognizing the difference between latitude and longitude; and

   c. determining latitude and longitude.

4. **Teaching Points**

TP	Description	Method	Time	Ref
TP1	Explain that the earth is divided into sections by an imaginary grid system called a graticule, composed of: a. parallels of latitude, b. meridians of longitude, c. the equator, and d. the prime meridian.	Interactive Lecture	5 min	C3-116 (p. 175)
TP2	Explain geographical coordinates, to include: a. units of measurement, and b. sequencing.	Interactive Lecture	5 min	C3-116 (p. 175)
TP3	Given a set of coordinates, demonstrate and have the cadet determine the location of an airport by: a. finding the latitude, and b. finding the longitude.	Demonstration and Performance	10 min	C3-139
TP4	Demonstrate and have the cadet determine the coordinates of a given location on a map by: a. calculating latitude; and b. calculating longitude.	Demonstration and Performance	5 min	C3-139

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5. **Time**

a.	Introduction/Conclusion:	5 min
b.	Interactive Lecture:	10 min
c.	Demonstration and Performance:	15 min
d.	Total:	30 min

6. **Substantiation**

   a. An interactive lecture was chosen for TPs 1 and 2 to introduce basic air navigation terms.

   b. Demonstration and performance was chosen for TPs 3 and 4 as it allows the instructor to explain and demonstrate determining positions and coordinates while providing an opportunity for the cadet to practice under supervision.

7. **References**

   a. 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.

   b. C3-139 (ISBN 0-7715511-5-0) Transport Canada. (1999). *Flight Training Manual 4th Edition Revised*. Ottawa, ON: Transport Canada.

8. **Training Aids.** VNC.

9. **Learning Aids.** VNC.

10. **Test Details.** This EO is assessed IAW Chapter 3, Annex B, Appendix 5, (Aviation Subjects – Combined Assessment PC).

11. **Remarks**

   a. VNCs can be ordered through your Area Cadet Officer (ACO), purchased at a local flight training centre, or ordered online at NavCanada.

   b. EO C337.02 (Practice Air Navigation Skills) may be conducted to provide extra practice of the skills learned in this EO.

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