EO M337.01 – MEASURE DISTANCE ALONG A ROUTE

1. **Performance.** Measure Distance Along a Route.

2. **Conditions**

   a. Given:

      (1) Visual Flight Rules (VFR) Navigation Chart (VNC),

      (2) International Civil Aviation Organization (ICAO) ruler,

      (3) Supervision, and

      (4) 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 measure distance along a route, to include:

   a. defining air navigation terms;

   b. identifying types of air navigation; and

   c. determining the distance between two points.

4. **Teaching Points**

TP	Description	Method	Time	Ref
TP1	Define air navigation terms, to include: a. graticule, b. latitude, c. longitude, d. nautical miles, e. statute miles, f. scale, and g. VNC.	Interactive Lecture	5 min	C3-116 (p. 175, p.186, p. 188)
TP2	Identify and describe types of navigation, to include: a. pilotage, b. dead reckoning, c. inertial navigation, and d. satellite navigation.	Interactive Lecture	5 min	C3-116 (p. 175)
TP3	Demonstrate and have the cadet determine the distance between two predetermined points along a route.	Demonstration and Performance	15 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 and types of air navigation.

b. Demonstration and performance was chosen for TP 3 as it allows the instructor to explain and demonstrate measuring distances while providing an opportunity for the cadet to practice this skill 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**

a. VNC, and

b. ICAO ruler.

9. **Learning Aids**

a. VNC, and

b. ICAO ruler.

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

11. **Remarks**

a. VNCs and ICAO rulers can be ordered through the Area Cadet Officer (ACO), purchased at a local flight training centre, or ordered online at NavCanada (www.navcanada.ca).

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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