EO C437.02 – USE A VISUAL FLIGHT RULES (VFR) NAVIGATION CHART (VNC)

1. **Performance**: Use a Visual Flight Rules (VFR) Navigation Chart (VNC)

2. **Conditions**:

   a. Given:

      (1) VNC,

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

      (3) Douglas protractor,

      (4) Supervision, and

      (5) Assistance as required.

   b. Denied: Nil.

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

3. **Standard**: The cadet shall use a VNC by:

   a. explaining types of projections;

   b. describing types of aeronautical charts;

   c. locating landmarks using latitude and longitude;

   d. plotting tracks between landmarks;

   e. measuring distances; and

   f. determining headings.

4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Explain types of projections.	Interactive Lecture	5 min	C3-116 (pp. 184–186)
TP2	Describe types of aeronautical charts.	Interactive Lecture	5 min	C3-116 (pp. 186–188)
TP3	Explain, demonstrate and have the cadets practice locating landmarks on a VNC using latitude and longitude.	Demonstration and Performance	15 min	
TP4	Explain, demonstrate and have the cadets practice plotting tracks between landmarks on a VNC.	Demonstration and Performance	5 min	
TP5	Explain, demonstrate and have the cadets practice measuring distances on a VNC.	Demonstration and Performance	10 min	

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TP	Description	Method	Time	Refs
TP6	Explain, demonstrate and have the cadets practice determining headings on a VNC.	Demonstration and Performance	10 min	

5. **Time**:

a.	Introduction / Conclusion:	10 min
b.	Interactive Lecture:	10 min
c.	Demonstration and Performance:	40 min
d.	Total:	60 min

6. **Substantiation**:

   a. An interactive lecture was chosen for TPs 1 and 2 to clarify, emphasize, and summarize types of projections and aeronautical charts.

   b. A demonstration and performance was chosen for TPs 3–6 as it allows the instructor to explain and demonstrate using a VNC while providing an opportunity for the cadets to practice using a VNC 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,

   b. Large globe with latitude and longitude markings,

   c. Sheet of flip chart paper,

   d. VNC,

   e. World Aeronautical Chart,

   f. VFR Terminal Area Chart,

   g. Enroute Chart,

   h. ICAO ruler, and

   i. Douglas protractor.

9. **Learning Aids**:

   a. Pencil,

   b. VNC,

   c. ICAO ruler,

   d. Ruler,

   e. Paper, and

   f. Douglas protractor.

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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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