EO M437.01 – DEFINE AIR NAVIGATION TERMS

1. **Performance**: Define Air Navigation Terms
2. **Conditions**:
   a. Given:
      (1) Supervision, and
      (2) Assistance as required.
   b. Denied: Nil.
   c. Environmental: Classroom or training area large enough to accommodate the entire group.
3. **Standard**: The cadet shall define:
   a. latitude and longitude,
   b. great circles,
   c. rhumb lines, and
   d. headings and bearings.
4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Define: a. meridians of longitude, b. parallels of latitude, c. geographical co-ordinates, and d. the relationship between time and longitude.	Interactive Lecture	25 min	C3-116 (pp. 175–176)
TP2	Define great circles and rhumb lines.	Interactive Lecture	10 min	C3-116 (p. 177)
TP3	Define headings and bearings.	Interactive Lecture	5 min	C3-116 (p. 177)
TP4	Have the cadets take headings and bearings.	In-Class Activity	10 min	

5. **Time**:

a.	Introduction / Conclusion:	10 min
b.	Interactive Lecture:	40 min
c.	In-Class Activity:	10 min
d.	Total:	60 min

Unofficial convenience copy of A-CR-CCP-804/PG-001, cached 2026-11-08 from https://app.cadets.gc.ca/cadet-publications/A-CR-CCP-804-PG-001/A-CR-CCP-804-PG-001.pdf.
Verify against the official publication.

6. **Substantiation**:

   a. An interactive lecture was chosen for TPs 1–3 to clarify, emphasize, and summarize navigation terms.

   b. An in-class activity was chosen for TP 4 as it is an interactive way to reinforce bearings and headings, and confirm the cadets' comprehension of navigation terms.

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, and

   c. Douglas protractor.

9. **Learning Aids**:

   a. Local VFR Navigation Chart (VNC),

   b. Douglas protractor,

   c. Pen / pencil, and

   d. Headings and Bearings worksheet.

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

11. **Remarks**: Cadets who are qualified Advanced Aviation may assist with this instruction.

Unofficial convenience copy of A-CR-CCP-804/PG-001, cached 2026-11-08 from https://app.cadets.gc.ca/cadet-publications/A-CR-CCP-804-PG-001/A-CR-CCP-804-PG-001.pdf.
Verify against the official publication.