EO C390.09 – IDENTIFY ELEMENTS OF THE NIGHT SKY

1. **Performance.** Identify Elements of the Night Sky.

2. **Conditions**

   a. Given:

      (1) Planisphere star chart,

      (2) Red-filtered flashlight,

      (3) Supervision, and

      (4) Assistance as required.

   b. Denied: N/A.

   c. Environmental: Field setting during the night with a clear view of the sky.

3. **Standard.** The cadet shall identify elements of the night sky, to include:

   a. the moon,

   b. Venus,

   c. Polaris, and

   d. constellations, such as:

      (1) Ursa Major,

      (2) Ursa Minor,

      (3) Cassiopeia,

      (4) Orion, and

      (5) the signs of the zodiac.

4. **Teaching Points**

TP	Description	Method	Time	Ref
TP1	Describe conditions required to view the elements of the night sky, to include: a. clouds, b. moon, and c. light pollution.	Interactive Lecture	5 min	C3-179 (p. 6, p. 48)
TP2	Explain, demonstrate and have the cadets use a planisphere star chart.	Demonstration and Performance	10 min	C3-180
TP3	Describe and have the cadets identify elements of the night sky, to include: a. the moon, b. Venus,	Practical Activity	95 min	C3-179 (pp. 120–135) C3-221

Unofficial convenience copy of A-CR-CCP-803/PG-001, cached 2026-11-08 from https://app.cadets.gc.ca/cadet-publications/A-CR-CCP-803-PG-001/A-CR-CCP-803-PG-001.pdf.
Verify against the official publication.

TP	Description	Method	Time	Ref
	c. Polaris, and d. constellations, such as: 1. Ursa Major, 2. Ursa Minor, 3. Cassiopeia, 4. Orion, and 5. the signs of the zodiac.			

5. **Time**

a.	Introduction/Conclusion:	10 min
b.	Interactive Lecture:	5 min
c.	Demonstration and Performance:	10 min
d.	Practical Activity:	95 min
e.	Total:	120 min

6. **Substantiation**

a. An interactive lecture was chosen for TP 1 in order to orient the cadets to the conditions required to observe the elements of the night sky.

b. Demonstration and performance was chosen for TP 2 as it allows the instructor to explain and demonstrate how to use a planisphere star chart while providing an opportunity for the cadets to practice the skill under supervision.

c. A practical activity was chosen for TP 3 as it is an interactive way to introduce the cadets to elements of the night sky. This activity contributes to the development of astronomy skills and knowledge in a fun and challenging setting.

7. **References**

a. C3-179 (ISBN 1-55209-302-6) Dickenson, T. (2006). *Night Watch: A Practical Guide to Viewing the Universe*. Richmond Hill, ON: Firefly Books Ltd.

b. C3-180 (ISBN 1-55297-853-2) Scagell, R. (2004). *Firefly Planisphere: Latitude 42 Degrees North*. Toronto, ON: Firefly Books Ltd.

c. C3-221 National Research Council of Canada. (2007). *Explore the Night Sky*. Retrieved December 3, 2007, from http://www.nrc-cnrc.gc.ca/eng/education/astronomy/constellations/html.html.

8. **Training Aids**

a. Presentation aids (eg, whiteboard/flip chart/OHP/multimedia projector) appropriate for the classroom/training area,

b. Planisphere star chart, and

c. Red-filtered flashlight.

9. **Learning Aids**

a. Planisphere star chart, and

Unofficial convenience copy of A-CR-CCP-803/PG-001, cached 2026-11-08 from https://app.cadets.gc.ca/cadet-publications/A-CR-CCP-803-PG-001/A-CR-CCP-803-PG-001.pdf.
Verify against the official publication.

b. Red-filtered flashlight.

10. **Test Details.** N/A.

11. **Remarks**

a. It is recommended this lesson be conducted after EO C340.04 (Describe Elements of the Night Sky, Section 6).

b. Planispheres may be created from EO C340.04 (Describe Elements of the Night Sky) A-CR-CCP-803/PF-001, Chapter 15, Section 6, Figure 15U-4 and Figure 15U-5.

Unofficial convenience copy of A-CR-CCP-803/PG-001, cached 2026-11-08 from https://app.cadets.gc.ca/cadet-publications/A-CR-CCP-803-PG-001/A-CR-CCP-803-PG-001.pdf.
Verify against the official publication.

THIS PAGE INTENTIONALLY LEFT BLANK

Unofficial convenience copy of A-CR-CCP-803/PG-001, cached 2026-11-08 from https://app.cadets.gc.ca/cadet-publications/A-CR-CCP-803-PG-001/A-CR-CCP-803-PG-001.pdf.
Verify against the official publication.