

SECTION 17**PO 360 – RECOGNIZE ASPECTS OF AERODROME OPERATIONS**

1. **Performance.** Recognize Aspects of Aerodrome Operations.
2. **Conditions**
 - a. Given:
 - (1) Supervision, and
 - (2) Assistance as required.
 - b. Denied: N/A.
 - c. Environmental: Classroom or training area large enough to accommodate the entire group.
3. **Standard.** The cadet will recognize aspects of aerodrome operations.
4. **Remarks.** N/A.
5. **Complementary Material.** Complementary material associated with PO C360 is designed to enhance the cadet's knowledge of aerodrome operations, to include:
 - a. EO C360.01 (Identify Types of Aerodromes),
 - b. EO C360.02 (Explain Aspects of Aerodrome Lighting),
 - c. EO C360.03 (Construct a Model of the Airspace at an Aerodrome),
 - d. EO C360.04 (Identify How Equipment is Used at an Aerodrome),
 - e. EO C360.05 (Identify Aspects of Emergency Response and Aerodrome Security), and
 - f. EO C360.06 (Explain Aspects of Air Traffic Services [ATS]).

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EO C360.01 – IDENTIFY TYPES OF AERODROMES

1. **Performance.** Identify Types of Aerodromes.
2. **Conditions**
 - a. Given:
 - (1) Supervision, and
 - (2) 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 identify types of aerodromes, to include:
 - a. public,
 - b. private,
 - c. Canadian military, and
 - d. civilian, to include:
 - (1) private,
 - (2) municipal,
 - (3) regional, and
 - (4) international.
4. **Teaching Points**

TP	Description	Method	Time	Ref
TP1	Review definitions, to include: <ol style="list-style-type: none"> a. aerodrome, and b. airport. 	Interactive Lecture	5 min	C2-044 (p. 50, p. 51)
TP2	Explain types of aerodromes, to include: <ol style="list-style-type: none"> a. public, and b. private, to include: <ol style="list-style-type: none"> (1) prior notice required (PNR), and (2) prior permission required (PPR). 	Interactive Lecture	5 min	C2-044 (p. 51)
TP3	Explain Canadian military aerodromes.	Interactive Lecture	5 min	C2-044 (p. 51) C3-148 (p. 14)

TP	Description	Method	Time	Ref
TP4	Explain types of civilian aerodromes, to include: a. private, b. municipal, c. regional, and d. international.	Interactive Lecture	10 min	C3-147 C3-148 (pp. 29–49)

5. **Time**

- | | |
|-----------------------------|--------|
| a. Introduction/Conclusion: | 5 min |
| b. Interactive Lecture: | 25 min |
| c. Total: | 30 min |

6. **Substantiation.** An interactive lecture was chosen for this lesson to review, clarify, emphasize and summarize the types of aerodromes.

7. **References**

- a. C2-044 Transport Canada. (2007). *Aeronautical Information Manual*. Retrieved October 2, 2007, from <http://www.tc.gc.ca/publications/EN/TP14371/PDF/HR/TP14371E.PDF>.
- b. C3-147 NAV CANADA. (2007). *Canadian Airport Charts*. Retrieved October 9, 2007, from http://www.navcanada.ca/ContentDefinitionFiles/Publications/AeronauticalInfoProducts/CanadianAirportCharts/CanadianAirportCharts_current.pdf.
- c. C3-148 (ISBN 0-9739866-0-3) Syme, E. R., & Wells, A. T. (2005). *Airport Development, Management and Operations in Canada: Second Edition*. Barrie, ON: Aviation Education Services.

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

9. **Learning Aids.** N/A.

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

11. **Remarks.** N/A.

EO C360.02 – EXPLAIN ASPECTS OF AERODROME LIGHTING

1. **Performance.** Explain Aspects of Aerodrome Lighting.
2. **Conditions**
 - a. Given:
 - (1) Supervision, and
 - (2) 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 explain aspects of aerodrome lighting, to include:
 - a. manoeuvring lighting, to include:
 - (1) runway lighting,
 - (2) taxiway lighting,
 - (3) apron lighting,
 - (4) unserviceable area markings, and
 - (5) approach light systems (ALS); and
 - b. navigational lighting, to include:
 - (1) aerodrome beacon, and
 - (2) obstruction lighting.
4. **Teaching Points**

TP	Description	Method	Time	Ref
TP1	Explain manoeuvring lighting, to include: <ol style="list-style-type: none"> a. runway lighting, b. taxiway lighting, c. apron lighting, d. unserviceable area markings, and e. approach lighting systems (ALS). 	Interactive Lecture	20 min	C2-044 (p. 65) C3-116 (p. 93–94)
TP2	Explain navigational lighting, to include: <ol style="list-style-type: none"> a. aerodrome beacon, and b. obstruction lighting. 	Interactive Lecture	5 min	C3-116 (p. 93–94)

5. **Time**
 - a. Introduction/Conclusion: 5 min
 - b. Interactive Lecture: 25 min
 - c. Total: 30 min

6. **Substantiation.** An interactive lecture was chosen for this lesson to clarify, emphasize and summarize aspects of aerodrome lighting.
7. **References**
 - a. C2-044 Transport Canada. (2007). *Aeronautical Information Manual*. Retrieved October 2, 2007, from <http://www.tc.gc.ca/publications/EN/TP14371/PDF/HR/TP14371E.PDF>.
 - b. C3-116 (ISBN 0-9680390-5-7) MacDonald, A. F., & Pepler, I. L. (2000). *From the Ground Up: Millennium Edition*. Ottawa, ON: Aviation Publishers Co. Limited.
8. **Training Aids.** Presentation aids (eg, whiteboard/flip chart/OHP/multimedia projector) appropriate for the classroom/training area.
9. **Learning Aids.** N/A.
10. **Test Details.** N/A.
11. **Remarks.** N/A.

EO C360.03 – CONSTRUCT A MODEL OF THE AIRSPACE AT AN AERODROME

1. **Performance.** Construct a Model of the Airspace at an Aerodrome.
2. **Conditions**
 - a. Given:
 - (1) Coloured construction paper,
 - (2) Transparent tape,
 - (3) Scissors,
 - (4) Coloured markers,
 - (5) Glue,
 - (6) Supervision, and
 - (7) Assistance as required.
 - b. Denied: N/A.
 - c. Environmental: Classroom or training area large enough to accommodate the entire group.
3. **Standard.** The cadet, as a member of a group, shall construct a model of the airspace at an aerodrome, to include:
 - a. a control zone (CZ),
 - b. terminal control area (TCA), and
 - c. transition area.
4. **Teaching Points**

TP	Description	Method	Time	Ref
TP1	Explain parts of the Canadian Domestic Airspace (CDA) system, to include: <ol style="list-style-type: none"> a. Northern Domestic Airspace (NDA), b. Southern Domestic Airspace (SDA), c. high level airspace, and d. low level airspace. 	Interactive Lecture	10 min	C2-044 (p. 181, p. 182)
TP2	Explain types of airspace, to include: <ol style="list-style-type: none"> a. CZs, b. TCAs, and c. transition areas. 	Interactive Lecture	10 min	C2-044 (pp. 184–186)

TP	Description	Method	Time	Ref
TP3	Explain classes of airspace, to include: a. Class A, b. Class B, c. Class C, d. Class D, e. Class E, f. Class F, and g. Class G.	Interactive Lecture	10 min	C2-044 (pp. 187–190)
TP4	Have the cadet, as a member of a group of no more than four, construct a model of the airspace at an aerodrome, to include: a. CZ, b. TCA, and c. transition zone.	In-Class Activity	55 min	C2-044 (pp. 187–190)

5. Time

- | | |
|-----------------------------|--------|
| a. Introduction/Conclusion: | 5 min |
| b. Interactive Lecture: | 30 min |
| c. In-Class Activity: | 55 min |
| d. Total: | 90 min |

6. Substantiation

- An interactive lecture was chosen for TPs 1–3 to introduce the parts of the Canadian Domestic Airspace (CDA).
- An in-class activity was chosen for TP 4 as an interactive way to reinforce concepts of the CDA.

7. **References.** C2-044 Transport Canada. (2007). *Aeronautical Information Manual*. Retrieved October 2, 2007, from <http://www.tc.gc.ca/publications/EN/TP14371/PDF/HR/TP14371E.PDF>.

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

9. Learning Aids

- Handouts of classes of airspace,
- Coloured construction paper,
- Transparent tape,
- Scissors,
- Coloured markers, and
- Glue.

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

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EO C360.04 – IDENTIFY HOW EQUIPMENT IS USED AT AN AERODROME

1. **Performance.** Identify How Equipment is Used at an Aerodrome.
2. **Conditions**
 - a. Given:
 - (1) Supervision, and
 - (2) 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 identify how equipment is used at an aerodrome, to include:
 - a. vehicles,
 - b. runway maintenance equipment, to include:
 - (1) sweepers,
 - (2) snowplows, and
 - (3) snow blowers; and
 - c. refuelling equipment, to include:
 - (1) stationary refuelling equipment, and
 - (2) mobile refuelling equipment.
4. **Teaching Points**

TP	Description	Method	Time	Ref
TP1	Explain how trucks are used at an aerodrome, to include: <ol style="list-style-type: none"> a. inspections, b. maintenance, c. construction, d. snow removal, and e. platforms for specialty equipment. 	Interactive Lecture	15 min	C3-148 (pp. 183–185, p. 188, p. 195)
TP2	Describe runway maintenance equipment and how it is used at an aerodrome, to include: <ol style="list-style-type: none"> a. sweepers, b. snowplows, and c. snow blowers. 	Interactive Lecture	5 min	C3-148 (pp. 181–186)
TP3	Describe refuelling equipment at an aerodrome, to include: <ol style="list-style-type: none"> a. stationary refuelling equipment, and b. mobile refuelling equipment. 	Interactive Lecture	5 min	C3-148 (pp. 215–217)

5. **Time**

- | | |
|-----------------------------|--------|
| a. Introduction/Conclusion: | 5 min |
| b. Interactive Lecture: | 25 min |
| c. Total: | 30 min |

6. **Substantiation.** An interactive lecture was chosen for this lesson to clarify, emphasize and summarize the equipment used at an aerodrome.

7. **References.** C3-148 (ISBN 0-9739866-0-3) Syme, E. R., & Wells, A. T. (2005). *Airport Development, Management and Operations in Canada: Second Edition*. Barrie, ON: Aviation Education Services.

8. **Training Aids**

- Presentation aids (eg, whiteboard/flip chart/OHP/multimedia projector) appropriate for the classroom/training area, and
- Pictures of aerodrome vehicles.

9. **Learning Aids.** Aerodrome vehicles handout.

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

11. **Remarks.** N/A.

EO C360.05 – IDENTIFY ASPECTS OF EMERGENCY RESPONSE AND AERODROME SECURITY

1. **Performance.** Identify Aspects of Emergency Response and Aerodrome Security.
2. **Conditions**
 - a. Given:
 - (1) Supervision, and
 - (2) 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 identify aspects of:
 - a. emergency response, to include:
 - (1) aircraft emergencies, and
 - (2) aerodrome emergencies; and
 - b. aerodrome security, to include:
 - (1) site security, and
 - (2) the role of the Canadian Air Transport Security Authority (CATSA).
4. **Teaching Points**

TP	Description	Method	Time	Ref
TP1	Discuss aircraft emergencies, to include: <ol style="list-style-type: none"> a. Aircraft Rescue and Fire Fighting (ARFF), b. standby requests, c. on-site crashes, d. off-site crashes, and e. joint responses. 	Interactive Lecture	5 min	C2-044 (p. 67, p. 68)
TP2	Discuss aerodrome emergencies, to include: <ol style="list-style-type: none"> a. building fires, b. bomb threats, and c. medical crises. 	Interactive Lecture	5 min	C3-148 (pp. 225–227)
TP3	Explain components of aerodrome site security, to include: <ol style="list-style-type: none"> a. aerodrome security definitions, b. restricted areas, c. fences, and d. gates. 	Interactive Lecture	5 min	C3-148 (pp. 220–222)
TP4	Explain security requirements at different types of aerodromes.	Interactive Lecture	5 min	C3-148 (pp. 220–225)

TP	Description	Method	Time	Ref
TP5	Explain the role of the Canadian Air Transport Security Authority (CATSA) to include: a. Pre-board Screening (PBS), b. Hold Baggage Screening (HBS), and c. Non-passenger Screening (NPS).	Interactive Lecture	5 min	C3-098

5. **Time**

- | | | |
|----|--------------------------|--------|
| a. | Introduction/Conclusion: | 5 min |
| b. | Interactive Lecture: | 25 min |
| c. | Total: | 30 min |

6. **Substantiation.** An interactive lecture was chosen for this lesson to clarify, emphasize and summarize aircraft and aerodrome emergencies, security, the role of CATSA, and types of screening at an aerodrome.

7. **References**

- a. C2-044 Transport Canada. (2007). *Aeronautical Information Manual*. Retrieved October 2, 2007, from <http://www.tc.gc.ca/publications/EN/TP14371/PDF/HR/TP14371E.PDF>.
- b. C3-098 Canadian Air Transport Security Authority. (2007). *Mandate*. Retrieved October 10, 2007, from http://www.catsa-acsta.gc.ca/English/about_propos/mandat.shtml.
- c. C3-148 (ISBN 0-9739866-0-3) Syme, E. R., & Wells, A. T. (2005). *Airport Development, Management and Operations in Canada: Second Edition*. Barrie, ON: Aviation Education Services.

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

9. **Learning Aids.** N/A.

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

11. **Remarks.** N/A.

EO C360.06 – EXPLAIN ASPECTS OF AIR TRAFFIC SERVICES (ATS)

1. **Performance.** Explain Aspects of Air Traffic Services (ATS).
2. **Conditions**
 - a. Given:
 - (1) Supervision, and
 - (2) 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 explain aspects of ATS, to include:
 - a. the types of ATS,
 - b. the difference between an air traffic control (ATC) clearance and an ATC instruction, and
 - c. the functions of ATC.
4. **Teaching Points**

TP	Description	Method	Time	Ref
TP1	Explain the types of ATS, to include: <ol style="list-style-type: none"> a. ATC, b. information services, c. advisory services, d. alerting services, e. briefing services, and f. Notice to Airmen (NOTAM) services. 	Interactive Lecture	10 min	C2-044 (pp. 159–170, p. 335)
TP2	Explain the difference between an ATC clearance and an ATC instruction.	In-Class Activity	10 min	C2-044 (p. 169–170)
TP3	Explain the functions of ATC, to include: <ol style="list-style-type: none"> a. Area Control Centres (ACCs), b. Terminal Control Units (TCUs), c. control towers, and d. Flight Service Stations (FSSs). 	Interactive Lecture	5 min	C2-044 (pp. 159–170)

5. **Time**
 - a. Introduction/Conclusion: 5 min
 - b. Interactive Lecture: 15 min
 - c. In-Class Activity: 10 min
 - d. Total: 30 min

6. **Substantiation**

- a. An interactive lecture was chosen for TPs 1 and 3 to clarify, emphasize and summarize aspects of ATS.
- b. An in-class activity was chosen for TP 2 as this is an interactive way to reinforce the difference between ATC clearances and ATC instructions.

7. **References.** C2-044 Transport Canada. (2007). *Aeronautical Information Manual*. Retrieved October 2, 2007, from <http://www.tc.gc.ca/publications/EN/TP14371/PDF/HR/TP14371E.PDF>.

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

9. **Learning Aids**

- a. One sheet of paper, and
- b. Pens/pencils.

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

11. **Remarks.** N/A.