

SECTION 17**PO 160 – PARTICIPATE IN AERODROME OPERATIONS ACTIVITIES**

1. **Performance:** Participate in Aerodrome Operations Activities
2. **Conditions:**
 - a. Given:
 - (1) Bristol board,
 - (2) Construction paper,
 - (3) Cardboard,
 - (4) Small boxes (shoe boxes),
 - (5) White chalk,
 - (6) Stick pins,
 - (7) Colour markers,
 - (8) Scissors,
 - (9) Glue,
 - (10) Masking tape,
 - (11) Supervision, and
 - (12) Assistance as required.
 - b. Denied: Nil.
 - c. Environmental: Classroom or training area large enough to accommodate the entire group.
3. **Standard:** The cadets will participate in aerodrome operations activities to identify features of and construct a model aerodrome, to include:
 - a. features of a runway,
 - b. major aerodrome components, and
 - c. aircraft maintenance facilities.
4. **Remarks:** Nil.
5. **Complementary Material:** Complementary material associated with PO 160 is designed to enhance the cadets' knowledge of aerodrome operations through a number one activity, EO C160.01 (Tour a Local Aerodrome).

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EO M160.01 – IDENTIFY MAJOR AERODROME COMPONENTS

1. **Performance:** Identify Major Aerodrome Components
2. **Conditions:**
 - a. Given:
 - (1) Game pieces located at Attachment B,
 - (2) Supervision, and
 - (3) Assistance as required.
 - b. Denied: Nil.
 - c. Environmental: Suitable classroom facilities to accommodate the entire group.
3. **Standard:** The cadets shall identify the major components of an aerodrome, to include:
 - a. runway,
 - b. taxiway,
 - c. apron,
 - d. control tower,
 - e. terminal buildings,
 - f. windsock,
 - g. flying school, and
 - h. hangars.
4. **Teaching Points:**

| TP | Description | Method | Time | Refs |
|-----|--|---------------------|--------|-----------------------------------|
| TP1 | Define the terms aerodrome and airport. | Interactive Lecture | 5 min | A3-001 (p. 91) |
| TP2 | Explain components of the airside of an aerodrome, to include: <ol style="list-style-type: none"> a. runway, b. taxiway, and c. apron. | Interactive Lecture | 5 min | A3-001 (pp. 91–92) C2-002 |
| TP3 | Explain components of an aerodrome, to include: <ol style="list-style-type: none"> a. control tower, b. terminal building, c. windsock, d. flying school, and e. hangars. | Interactive Lecture | 10 min | A3-001 (pp. 93 and 213) C2-002 |

| TP | Description | Method | Time | Refs |
|-----|--|-------------------|-------|------|
| TP4 | Have the cadets identify components of an aerodrome. | In-Class Activity | 5 min | |

5. **Time:**

- | | | |
|----|----------------------------|--------|
| a. | Introduction / Conclusion: | 5 min |
| b. | Interactive Lecture: | 20 min |
| c. | In-Class Activity: | 5 min |
| d. | Total: | 30 min |

6. **Substantiation:**

- An interactive lecture was chosen for TPs 1–3 as it allows the instructor to introduce basic information to the cadets.
- An in-class activity was selected for TP 4 as it is an interactive way to confirm the cadets' comprehension of the material.

7. **References:**

- A3-001 A-CR-CCP-263/PT-001 *From the ground up: Millennium edition*. (2000). Ottawa, ON: Aviation Publishers Co. Limited.
- C3-022 ISBN 0-19-541731-3 *The Canadian oxford dictionary* (2001). Don Mills, ON: Oxford University Press.

8. **Training Aids:**

- Presentation aids (eg, whiteboard / flipcharts / OHP / multimedia projector) appropriate for the training area,
- Flash cards located at Attachment A, and
- Answer key located at Attachment C.

9. **Learning Aids:**

- Flash cards located at Attachment A, and
- Game pieces located at Attachment B.

10. **Test Details:** Nil.11. **Remarks:** Nil.

EO M160.02 – IDENTIFY FEATURES OF A RUNWAY

1. **Performance:** Identify Features of a Runway
2. **Conditions:**
 - a. Given:
 - (1) Runway markings located at Attachment A,
 - (2) Flipchart paper,
 - (3) Markers,
 - (4) Supervision, and
 - (5) Assistance as required.
 - b. Denied: Nil.
 - c. Environmental: Suitable classroom facilities to accommodate the entire group.
3. **Standard:** The cadets shall identify the features of runways, to include:
 - a. lights,
 - b. numbering, and
 - c. markings.
4. **Teaching Points:**

| TP | Description | Method | Time | Refs |
|-----|--|---------------------|--------|--------------------|
| TP1 | Discuss runway lights. | Interactive Lecture | 5 min | A3-001 (p. 93) |
| TP2 | Discuss runway numbering. | Interactive Lecture | 10 min | A3-001 (p. 91) |
| TP3 | Discuss runway markings and lights, to include: <ol style="list-style-type: none"> a. centreline, b. landing zone markers, c. threshold markings, d. aerodrome danger markings, e. obstruction lights, and f. windsock lighting. | Interactive Lecture | 5 min | A3-001 (pp. 91–93) |

| TP | Description | Method | Time | Refs |
|-----|--|-------------------|-------|------|
| TP4 | Have the cadets identify various features of a runway, to include: <ol style="list-style-type: none"> threshold markings, red / green lights, runway numbers, centre line, aerodrome landing markings, danger markings, and white lights. | In-Class Activity | 5 min | |

5. **Time:**

- | | |
|-------------------------------|--------|
| a. Introduction / Conclusion: | 5 min |
| b. Interactive Lecture: | 20 min |
| c. In-Class Activity: | 5 min |
| d. Total: | 30 min |

6. **Substantiation:**

- An interactive lecture method was chosen for TP 1–3 as it allows the instructor to present basic information to the cadets.
- An in-class activity was selected for TP 4 as it is an interactive way to confirm the cadets' comprehension of the material.

7. **Reference:** A3-001 A-CR-CCP-263/PT-001 *From the ground up: Millennium edition* (2000). Ottawa, ON: Aviation Publishers Co. Limited.8. **Training Aids:**

- Presentation aids (eg, whiteboard / flipchart / OHP / multimedia projector) appropriate for the training area, and
- Runway features located at Attachment A.

9. **Learning Aids:**

- Flipchart paper and markers, and
- Runway features located at Attachment A.

10. **Test Details:** Nil.11. **Remarks:** Nil.

EO M160.03 – CONSTRUCT A MODEL AERODROME

1. **Performance:** Construct a Model Aerodrome
2. **Conditions:**
 - a. Given:
 - (1) Bristol board,
 - (2) Construction paper,
 - (3) Cardboard,
 - (4) Small boxes (shoe boxes),
 - (5) White chalk,
 - (6) Stick pins,
 - (7) Colour markers,
 - (8) Scissors,
 - (9) Glue,
 - (10) Masking tape,
 - (11) Supervision, and
 - (12) Assistance as required.
 - b. Denied: Nil.
 - c. Environmental: Suitable classroom facilities to accommodate the entire group and model construction.
3. **Standard:** The cadet shall construct a model aerodrome, to include:
 - a. runway,
 - b. taxiway,
 - c. apron,
 - d. control tower,
 - e. terminal buildings,
 - f. windsock,
 - g. flying school, and
 - h. hangars.

4. **Teaching Points:** Have the cadets construct a model aerodrome.
5. **Time:**
 - a. Introduction / Conclusion: 5 min
 - b. In-Class Activity: 55 min
 - c. Total: 60 min
6. **Substantiation:** An in-class activity was selected for this lesson as it is a fun and interactive way to confirm the cadets' comprehension of the material.
7. **Reference:** A3-001 A-CR-CCP-263/PT-001 *From the ground up: Millennium edition* (2000). Ottawa, ON: Aviation Publishers Co. Limited.
8. **Training Aids:**
 - a. Presentation aids (eg, whiteboard / flipcharts / OHP / multimedia projector) appropriate for the classroom / training area, and
 - b. Picture of an aerodrome.
9. **Learning Aids:**
 - a. Picture of an aerodrome,
 - b. Bristol board,
 - c. Construction paper,
 - d. Cardboard,
 - e. Small boxes (shoe boxes),
 - f. White chalk,
 - g. Stick pins,
 - h. Colour markers,
 - i. Scissors,
 - j. Glue, and
 - k. Masking tape.
10. **Test Details:** Nil.
11. **Remarks:** Nil.

EO C160.01 – TOUR A LOCAL AERODROME

1. **Performance:** Tour a Local Aerodrome
2. **Conditions:**
 - a. Given:
 - (1) Supervision, and
 - (2) Assistance as required.
 - b. Denied: Nil.
 - c. Environmental: Suitable classroom facilities to accommodate the entire group.
3. **Standard:** The cadet shall tour a local aerodrome, to include:
 - a. indentifying aviation components, and
 - b. discovering local aviation community and history.
4. **Teaching Points:** The tour guide should include:
 - a. location of major aerodrome components,
 - b. the aircraft seen at the facility (military, civilian or cadet),
 - c. the main components of an airplane,
 - d. the use of the phonetic alphabet,
 - e. local aviation history, to include:
 - (1) notable aviation figures, and
 - (2) notable aviation events;
 - f. aviation careers, and
 - g. elements of civilian aviation, to include:
 - (1) local aviation providers,
 - (2) flying clubs, and
 - (3) local aviation events.
5. **Time:**

| | |
|-------------------------------|--------|
| a. Introduction / Conclusion: | 5 min |
| b. Field Trip: | 85 min |
| c. Total: | 90 min |

6. **Substantiation:** A field trip was chosen for this lesson as it reinforces material previously taught through the participation in a field trip conducted in real-life setting.
7. **References:** Nil.
8. **Training Aids:** Nil.
9. **Learning Aids:** Nil.
10. **Test Details:** Nil.
11. **Remarks:** There is no instructional guide for this EO.