EO M260.01 – EXPLAIN ASPECTS OF AIR TRAFFIC CONTROL (ATC)

1. **Performance**: Explain Aspects of Air Traffic Control (ATC)

2. **Conditions**:

   a. Given:

      (1) Supervision; and

      (2) Assistance as required.

   b. Denied: N/A.

   c. Environmental: Suitable classroom facilities or training area large enough to accommodate the entire group.

3. **Standard**: In accordance with specified references, the cadet shall explain aspects of ATC, to include:

   a. the role of an air traffic controller;

   b. a basic overview of radar technology used in ATC; and

   c. NORDO (without radio) procedures at a controlled airport, to include light signals to aircraft on the ground.

4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Explain the role of an air traffic controller in an aerodrome, to include: a. safety as their first concern; b. directing planes to minimize delays; c. preventing collisions by coordinating movement between: 1. aircraft; 2. aircraft and obstructions; and 3. aircraft and vehicles on the manoeuvring area; and d. providing authorization for: 1. arrivals and departures of aircraft at an aerodrome; and 2. air traffic through controlled airspaces.	Interactive Lecture	10 min	C3-097 C3-116 (p. 110)
TP2	Provide a basic overview of radar technology used in ATC, to include: a. explaining that the name “RADAR” is an abbreviation of “radio detection and ranging”; and b. the principal uses of radar in aviation, to include: 1. ATC; 2. fixing positions of airplanes in flight;	Interactive Lecture	5 min	C3-116 (p. 249)

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Verify against the official publication.

TP	Description	Method	Time	Refs
	3. detecting thunderstorm activity; and 4. approaching and landing guidance to airplanes.			
TP3	Explain NORDO (without radio) procedures at a controlled airport, to include the following light signals: a. departing aircraft; and b. arriving aircraft.	Interactive Lecture	10 min	C3-116 (p. 98)

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 orient the cadets to ATC, give an overview of it, and generate interest.

7. **References**:

   a. C3-096 ISSN 1715-7382 Transport Canada. (2006). *Aeronautical Information Manual.* Ottawa, ON: Her Majesty the Queen in Right of Canada.

   b. C3-097 U.S. Department of Labour. (2007). *Air Traffic Controllers.* Retrieved 9 February 2007, from http://www.bls.gov/oco/ocos108.htm.

   c. C3-116 A-CR-CCP-263/PT-001/(ISBN 0-9680390-5-7) MacDonald, A. F. and Peppler, I. L. (2000). *From the Ground Up: Millennium Edition.* Ottawa, ON: Aviation Publishers Co. Ltd.

8. **Training Aids**:

   a. Presentation aids (e.g. whiteboard/flipchart/OHP) appropriate for the classroom/training area; and

   b. NORDO light signal flash cards.

9. **Learning Aids**: NORDO light signal flash cards.

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

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

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