EO C429.02 – COMMUNICATE USING RADIO PROCEDURES FOR AVIATION TRANSMISSION

1. **Performance**: Communicate Using Radio Procedures for Aviation Transmission
2. **Conditions**:
   a. Given:
      (1) Hand-held radio,
      (2) Supervision, and
      (3) Assistance as required.
   b. Denied: Nil.
   c. Environmental: Classroom or training area large enough to accommodate the entire group.
3. **Standard**: The cadet shall communicate using radio procedures for aviation transmission, to include:
   a. standard phrases,
   b. priority of communication, and
   c. radio check.
4. **Teaching Points**:

TP	Description	Method	Time	Refs
TP1	Explain the standard phrases used in a radio message, to include: a. acknowledge, b. affirmative, c. break, d. confirm, e. correction, f. do you read, g. go ahead, h. how do you read, i. I say again, j. negative, k. out, l. over, m. read back, n. roger, o. say again, p. speak slower, q. stand by, r. that is correct,	Interactive Lecture	5 min	C3-116 (p. 219) C3-182 (p. 24)

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TP	Description	Method	Time	Refs
	s. verify, and t. WILCO.			
TP2	Explain priority of communication, to include: a. emergency communications, b. flight safety communications, c. scheduled broadcasts, d. unscheduled broadcasts, and e. other air-ground communications.	Interactive Lecture	5 min	C3-116 (pp. 107, 110–111, 164, 170–171, 219–220)
TP3	Explain emergency transmissions, to include: a. distress calls, b. urgency calls, and c. safety calls.	Interactive Lecture	5 min	C3-116 (pp. 225–226) C3-182 (pp. 14–23)
TP4	Explain a radio check, to include: a. readability, to include: 1. unreadable, 2. readable now and then, 3. readable with difficulty, 4. readable, and 5. perfectly readable; and b. strength, to include: 1. bad, 2. poor, 3. fair, 4. good, and 5. excellent.	Interactive Lecture	5 min	C3-116 (p. 220) C3-182 (pp. 13–14)
TP5	Have the cadets, in pairs, conduct station-to-station calls using the ITU phonetic alphabet and numbers, and conduct a signal check, to include: a. turning the radio on; b. using message parts, to include: 1. initiating a call with "____" this is "____", over; 2. answering a call with "____" this is "____", go ahead, over"; 3. requesting a signal check on a different frequency; 4. responding to the request; and 5. acknowledging the call and ending the call with "out";	In-Class Activity	5 min	

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TP	Description	Method	Time	Refs
	c. using radio techniques; and d. turning the radio off.			

5. **Time**:

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

6. **Substantiation**:

   a. An interactive lecture was chosen for TPs 1–4 to clarify, emphasize and summarize radio procedures for aviation transmission.

   b. An in-class activity was chosen for TP 5 as an interactive way to confirm the cadets' comprehension of radio procedures for aviation transmission.

7. **References**:

   a. 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.

   b. C3-182 *Study Guide for the Radiotelephone Operator's Restricted Certificate (Aeronautical)*. (2008). Retrieved September 28, 2008, from www.ic.gc.ca/epic/site/smt-gst.nsf/en/sf01397e.html

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

9. **Learning Aids**:

   a. Hand-held radio,

   b. Pen / pencil, and

   c. Radio Activity handout.

10. **Test Details**: This EO is assessed IAW Chapter 3, Annex B, 429 PC.

11. **Remarks**:

   a. If the squadron chooses to have cadets obtain the ROC-A, all complementary EOs for this PO must be instructed, and a qualified examiner must conduct 429 PC.

   b. Cadets who are qualified Advanced Aviation may assist with this instruction.

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