ROYAL CANADIAN AIR CADETS

PROFICIENCY LEVEL THREE

INSTRUCTIONAL GUIDE

SECTION 3

EO C337.01 – OPERATE A RADIO FOR AVIATION TRANSMISSION

Total Time: 30 min

PREPARATION

PRE-LESSON INSTRUCTIONS

Resources needed for the delivery of this lesson are listed in the lesson specification located in A-CR-CCP-803/PG-001, Chapter 4. Specific uses for said resources are identified throughout the instructional guide within the TP for which they are required.

Review the lesson content and become familiar with the material prior to delivering the lesson.

Create several scripts using the examples located at Annex B as a guide.

PRE-LESSON ASSIGNMENT

N/A.

APPROACH

An in-class activity was chosen for TP 1 as an interactive way to review the phonetic alphabet.

Demonstration and performance was chosen for TPs 2 and 3 as it allows the instructor to explain and demonstrate operating a radio while providing an opportunity for the cadet to practice radio transmissions under supervision.

INTRODUCTION

REVIEW

N/A.

OBJECTIVES

By the end of this lesson the cadet shall have operated a radio for aviation transmissions.

IMPORTANCE

It is important for cadets to be able to operate a radio for aviation transmissions as it will improve their verbal communication skills and add to their comprehension and enjoyment of familiarization flights.

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Teaching point 1 **Review the Phonetic Alphabet and Numbers**

Time: 5 min Method: In-Class Activity

ACTIVITY

OBJECTIVE

The objective of this activity is to review the phonetic alphabet and numbers.

RESOURCES

N/A.

ACTIVITY LAYOUT

N/A.

ACTIVITY INSTRUCTIONS

1. Write the phonetic alphabet and numbers on the whiteboard or flip chart.
2. Have each cadet spell out their first and last name using the phonetic alphabet.
3. Have each cadet count from 1 to 5 or from 5 to 10 using the phonetic numbers.

SAFETY

N/A.

CONFIRMATION OF TEACHING POINT 1

The cadets' participation in the phonetics activity will serve as confirmation of TP 1.

Teaching point 2 **Explain, Demonstrate and Have the Cadet Practice Operating a Radio to Communicate the Arrival of an Aircraft**

Time: 10 min Method: Demonstration and Performance

Arrival messages are transmitted in order to communicate intentions, clearances and instructions. An airport can be a busy place, with many aircraft arriving and departing in short spans of time. This can cause confusion if proper communication is not practiced.

There are normally four parts to a radio message, including:

1. the call-up,
2. the reply,
3. the message, and
4. the acknowledgement or ending.

All parts of the message should be clear, concise and in phonetics where appropriate.

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ACTIVITY

Time: 5 min

OBJECTIVE

The objective of this activity is to demonstrate and have the cadet perform operating a radio to communicate the arrival of an aircraft.

RESOURCES

- Hand-held radio, and
- Script of phrases.

ACTIVITY LAYOUT

Arrange the classroom to facilitate small group work over a short distance.

ACTIVITY INSTRUCTIONS

1. Divide the cadets into pairs.
2. Distribute one radio and a script located at Annex B, page 14B-1 to each cadet.
3. Demonstrate the four parts of a radio message that communicate the arrival of an aircraft.
4. Have the cadets practice operating a radio to communicate the arrival of an aircraft.

SAFETY

N/A.

CONFIRMATION OF TEACHING POINT 2

The cadets' participation in the radio activity for communicating the arrival of an aircraft activity will serve as the confirmation of this TP.

Teaching point 3 **Explain, Demonstrate and Have the Cadet Practice Operating a Radio to Communicate the Departure of an Aircraft**

Time: 10 min Method: Demonstration and Performance

Departure messages are transmitted in order to communicate intentions, clearances and instructions.

All parts of the message should be clear, concise and in phonetics where appropriate.

ACTIVITY

Time: 5 min

OBJECTIVE

The objective of this activity is to demonstrate and have the cadet perform operating a radio to communicate the departure of an aircraft.

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RESOURCES

- Hand-held radio, and
- Script of phrases.

ACTIVITY LAYOUT

Arrange the classroom to facilitate small group work over a small distance.

ACTIVITY INSTRUCTIONS

1. Divide the cadets into pairs.
2. Distribute one radio and a script located at Annex B, page 14B-2 to each cadet.
3. Demonstrate the four parts of a radio message that communicate the departure of an aircraft.
4. Have the cadets practice operating a radio to communicate the departure of an aircraft.

SAFETY

N/A.

CONFIRMATION OF TEACHING POINT 3

The cadets' participation in the operation of a radio for communicating the departure of an aircraft activity will serve as the confirmation of this TP.

END OF LESSON CONFIRMATION

The cadets' participation in the operation of a radio for aviation transmission activities will serve as the confirmation of this lesson.

CONCLUSION

HOMEWORK/READING/PRACTICE

N/A.

METHOD OF EVALUATION

N/A.

CLOSING STATEMENT

Proper communication over the radio is essential. Some messages may contain a large amount of information that must be transmitted in a brief message. This skill will assist in developing effective verbal communication while using a radio.

INSTRUCTOR NOTES/REMARKS

Depending on available resources, this EO may be conducted on the familiarization flying day in cooperation with the Technical Training Establishment (TTE).

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REFERENCES

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.

C3-182 *Study Guide for the Radiotelephone Operator's Restricted Certificate (Aeronautical)*. (1990). Retrieved October 23, 2007, from http://www.ic.gc.ca/epic/site/smt-gst.nsf/en/sf01397e.html.

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