ROYAL CANADIAN AIR CADETS

PROFICIENCY LEVEL ONE

INSTRUCTIONAL GUIDE

SECTION 3

EO M160.03 – CONSTRUCT A MODEL AERODROME

Total Time: 60 min

PREPARATION

PRE-LESSON INSTRUCTIONS

Resources needed for the delivery of this lesson are listed in the lesson specification located at A-CR-CCP-801/PG-001, *Proficiency Level One Qualification Standard and Plan*. 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.

PRE-LESSON ASSIGNMENT

Nil.

APPROACH

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.

INTRODUCTION

REVIEW

Nil.

OBJECTIVES

By the end of this lesson the cadet shall have constructed a model aerodrome.

IMPORTANCE

Cadets will visit aerodromes as part of participating in various aircraft and aerodrome operations activities. This lesson will help them identify the major features of the aerodrome.

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Verify against the official publication.

Teaching point 1 **Have the cadets construct a model aerodrome.**

Time: 50 min Method: In-Class Activity

OBJECTIVE

The objective of this activity is to confirm the information taught during the previous two lessons on aerodrome operations.

RESOURCES

The materials recommended for the construction of the model aerodromes are:

- Bristol board,
- construction paper,
- cardboard,
- small boxes (shoe box size),
- white chalk,
- stick pins,
- colour markers,
- scissors,
- glue, and
- masking tape.



Other materials may be used beyond this list if available at the squadron.

ACTIVITY LAYOUT

Nil.

ACTIVITY INSTRUCTIONS

1. Place the cadets into groups of four to five.

2. Distribute the materials to each group.

3. Have each group start with four pieces of Bristol board (two by two taped together) to form the base of their aerodrome.

4. Show the cadets the diagram located at Attachment A for the ideal placement of the components of an aerodrome.

5. Have each group construct a model aerodrome.

6. Have each group tour each aerodrome and compare ideas on how they were constructed.

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While cadets are encouraged to be creative with the materials provided, the instructor may recommend the following uses for the resources listed above:

- cardboard, poster board and small boxes – can be used for the construction of small buildings;
- white chalk – can be used for runway numbering and markings on Bristol board;
- multi-coloured markers – can be used for labelling the various components and adding specific details to them;
- construction paper – can be used with cardboard/small boxes if a specific colour for the building/component is required;
- stick pins – can be used for the lighting at an aerodrome (taxiway and runway lights); and
- glue and masking tape – can be used to hold the various components together.

SAFETY

Nil.

INSTRUCTOR GUIDELINES

- Ensure the cadets share the supplies when creating model aerodromes.
- Assist groups in getting started if they are having difficulty.
- Supervise the cadets' work to ensure that they are following the instructions listed above.
- Once the activity has been completed, the instructor should examine the model aerodromes to ensure that all of the components are labelled properly and in their proper locations.
- After this activity has been completed, the instructor should carry on with the reflection/questioning stage.



Make use of all teachable moments throughout the model construction process. Make sure to cover material from M160.01 and M160.02.

CONFIRMATION OF TEACHING POINT 1

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

END OF LESSON CONFIRMATION

The cadets' participation in the activity will serve as the confirmation of this lesson.

CONCLUSION

HOMEWORK / READING / PRACTICE

Nil.

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METHOD OF EVALUATION

Nil.

CLOSING STATEMENT

Cadets will have an opportunity to visit various aerodromes during aviation and aerodrome activities. They will now be familiar with major aerodrome components.

INSTRUCTOR NOTES / REMARKS

Nil.

REFERENCES

A3-001 A-CR-CCP-263/PT-001 *From the Ground Up: Millennium Edition* (2000). Ottawa, ON: Aviation Publishers Co. Limited.

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