ROYAL CANADIAN ARMY CADETS

SILVER STAR

INSTRUCTIONAL GUIDE

SECTION 10

EO C322.04 – DRAW A MAP OF AN AREA IN THE LOCAL TRAINING FACILITY

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-703/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.

Photocopy Annex F for each cadet.

PRE-LESSON ASSIGNMENT

N/A.

APPROACH

A practical activity was chosen for this lesson as it is an interactive way to allow the cadet to experience map-making in a safe, controlled environment. This activity contributes to the development of map-making skills in a fun and challenging setting.

INTRODUCTION

REVIEW

The following review is from EO C322.03 (Identify the Principles of Map-Making, Section 9):

QUESTIONS

Q1. What are the four principles of map-making?

Q2. Determine location is the first step in making a map. What is the easiest way to do this?

Q3. The scale of a map is an expression of what type of ratio?

ANTICIPATED ANSWERS

A1. The four principles of map-making are:

- determine location;
- determine projection and scale;

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- identify features and add symbols; and
- apply geographical names to features.

A2. The easiest way to determine location is to use landmarks. Landmarks can be in the form of manmade features – houses, buildings, railroads, churches—or natural features – rivers, lakes, forested areas.

A3. The scale of a map is an expression of the ratio between one unit on the map and the distance one unit covers on the ground.

OBJECTIVES

By the end of this lesson the cadet shall have drawn a map of an area in the local training facility using the principles of map-making.

IMPORTANCE

It is important for cadets to be able to draw a map of an area in the local training facility because understanding the concept of map-making will enhance the cadets' ability to read a map. Using maps is an integral component to the army cadet training program and it is critical that a cadet is able to use them effectively. Drawing a map, using the principles of map-making, will provide the cadet the opportunity to see a map as more than simply lines and symbols.

Teaching point 1 **Have the Cadets Draw a Map of an Area in the Local Training Facility**

Time: 25 min Method: Practical Activity

ACTIVITY

OBJECTIVE

The objective of this activity is for the cadet to draw a map of an area in the unit's local training facility.

RESOURCES

- Graph paper located at Annex F,
- Paper (letter size),
- Measuring tape (one per group),
- Ruler (one per group),
- Pen/pencil,
- Markers/pencil crayons, and
- Notebook.

ACTIVITY LAYOUT

N/A.

ACTIVITY INSTRUCTIONS

1. Divide the cadets into groups of no more than three.
2. Assign each group an area in the local training facility to map.

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3. Have each group draw a map, which includes:

   a. the name of the map,

   b. the scale of the map, and

   c. a legend of symbols.

4. Have each group present their map to the rest of the class.

5. Debrief the cadets discussing the practicality of making a map by hand, the difficulties they experienced, and what they learned from the activity.

SAFETY

If cadets are mapping outside, there must be an adult supervisor with the group at all times.

CONFIRMATION OF TEACHING POINT 1

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

END OF LESSON CONFIRMATION

The cadets' participation in the practical map-making activity will serve as the confirmation of this lesson.

CONCLUSION

HOMEWORK/READING/PRACTICE

N/A.

METHOD OF EVALUATION

N/A.

CLOSING STATEMENT

Map reading is more than just looking at symbols and lines on a map. Participating in making a map will provide the cadet the opportunity to further understand how each symbol and line represents real features on the ground.

INSTRUCTOR NOTES/REMARKS

This EO is to be scheduled after EO C322.03 (Identify the Principles of Map-Making, Section 9).

REFERENCES

C2-168 EdGate. (2006). *Cartography Concepts: A Student's Guide to Mapmaking*. Retrieved February 21, 2008, from http://www.edgate.com/lewisandclark/cartography.html.

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