ROYAL CANADIAN AIR CADETS

PROFICIENCY LEVEL THREE

INSTRUCTIONAL GUIDE

SECTION 1

EO M340.01 – IDENTIFY CANADIAN ASTRONAUTS

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.

Choose two astronauts to be the focus of this lesson.

Retrieve current information about the chosen astronauts from the annexes and update with information from the reference.

Create a slide of each astronaut's photograph.

PRE-LESSON ASSIGNMENT

N/A.

APPROACH

An interactive lecture was chosen for this lesson to orient the cadets to Canadian astronauts, to generate interest in Canada's space program, and to emphasize the teaching points.

INTRODUCTION

REVIEW

N/A.

OBJECTIVES

By the end of this lesson the cadet shall have identified Canadian astronauts.

IMPORTANCE

It is important for cadets to identify Canadian astronauts so that they can become familiar with the Canadian space program. The hard work that astronauts perform will illustrate the Air Force motto: Per Ardua ad Astra, as well as the rewards that can be achieved by men and women who accept the challenge of the stars.

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Teaching point 1 **Identify Canadian Astronauts**

Time: 10 min Method: Interactive Lecture

Training of Canada's astronauts began in 1983 and Canada's first astronaut, Marc Garneau, visited space in October 1984, when, among many other mission accomplishments, the Canada Experiment (CANEX) payload performed important experiments. Those early CANEX experiments were:

- Auroral Photography Experiment (APE),
- Radiation Monitoring Equipment (RME), and
- Thermoluminiscent Dosimeter (TLD).

Since that time both the astronaut cadre and Canada's space program have grown. Some astronauts have retired after brilliant careers and new members have joined the team. Some of Canada's astronauts include:

- Marc Garneau (Canada's first astronaut),
- Roberta Bondar (Canada's first woman astronaut),
- Steve MacLean,
- Chris Hadfield,
- Robert Thirsk,
- Bjarni Tryggvason,
- David Williams, and
- Julie Payette.



Show the cadets the slides of photographs located at Annexes A to H.



Using information retrieved from the reference, identify the Canadian astronaut who most recently made his or her first space journey.

CONFIRMATION OF TEACHING POINT 1

QUESTIONS

Q1. In what year did training of Canada's astronauts begin?

Q2. When did Canada's first astronaut visit space?

Q3. Who was Canada's first astronaut?

ANTICIPATED ANSWERS

A1. 1983.

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A2. October 1984.

A3. Marc Garneau.

Teaching point 2 **Discuss the Professional and Personal Profiles of Two Canadian Astronauts**

Time: 15 min Method: Interactive Lecture



Discuss the following information about the two chosen astronauts, using information located at the respective annexes or retrieved from the reference, to include:

(1) missions undertaken,

(2) place and date of birth,

(3) education,

(4) professional experience,

(5) special honours, and

(6) affiliations.

CONFIRMATION OF TEACHING POINT 2

QUESTIONS

Q1. In what missions did these astronauts take part?

Q2. What part did these astronauts play on these missions?

Q3. What education and experience did these astronauts bring to the missions?

ANTICIPATED ANSWERS

A1. As per lesson content in TP 2.

A2. As per lesson content in TP 2.

A3. As per lesson content in TP 2.

END OF LESSON CONFIRMATION

QUESTIONS

Q1. Which Canadian astronaut most recently made his or her first space journey?

Q2. Who was Canada’s first astronaut?

Q3. Who was Canada’s first woman astronaut?

ANTICIPATED ANSWERS

A1. As per lesson content in TP 1.

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A2. Marc Garneau.

A3. Roberta Bondar.

CONCLUSION

HOMEWORK/READING/PRACTICE

N/A.

METHOD OF EVALUATION

N/A.

CLOSING STATEMENT

Space missions have a short history and a vast future. Cadets can stay current with the space program by frequently visiting websites of the Canadian Space Agency (CSA), the US National Aeronautics and Space Administration (NASA) and websites of other organizations such as the European Space Agency (ESA).

INSTRUCTOR NOTES/REMARKS

The instructor shall obtain the latest biographical information for this EO. This material must be updated each year to reflect the Canadian Space Agency's recent activities.

A list shall be kept of astronauts that cadets have focused on to prevent repetition, since other lessons, such as EO C340.01 (Identify Canadian Astronauts, Section 3), may introduce other astronauts in the future.

REFERENCES

C3-238 Canadian Space Agency. (2008). *Canadian Space Agency*. Retrieved February 9, 2008, from http://www.space.gc.ca/asc/eng/default.asp

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