



ROYAL CANADIAN AIR CADETS
PROFICIENCY LEVEL TWO
INSTRUCTIONAL GUIDE



SECTION 3

**EO M270.03 – DISCUSS EDUCATION AND EMPLOYMENT
 OPPORTUNITIES IN AIRCRAFT MANUFACTURING AND MAINTENANCE**

Total Time: 60 min

PREPARATION

PRE-LESSON INSTRUCTIONS

Resources needed for the delivery of this lesson are listed in the lesson specification located in A-CR-CCP-802/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 the handouts located at [Annexes B to F](#) for each learning station.

PRE-LESSON ASSIGNMENT

N/A.

APPROACH

An in-class activity was chosen for this lesson as it is an interactive way to present education and employment opportunities in the aircraft manufacturing and maintenance industry and to stimulate an interest among cadets.

INTRODUCTION

REVIEW

N/A.

OBJECTIVES

By the end of this lesson the cadet shall be expected to have discussed education and employment opportunities in the aircraft manufacturing and maintenance industry.

IMPORTANCE

It is important for cadets to learn the different employment, education and career opportunities in order to gain an awareness of the options available to them in the aviation industry.

Teaching Point 1**Introduce the Aircraft Manufacturing and Maintenance Industry**

Time: 50 min

Method: In-class Activity



This activity should be conducted as learning stations. Each learning station will be conducted concurrently.



Take notes after reading the material and looking at the relevant visual aids at each station. Do not move materials from one station to another. Groups will rotate from one learning station to the next, every fifteen minutes, until every learning station has been visited.

The three learning stations include:

1. employers in Canada,
2. career options, and
3. education and training institutions.

**Learning Station One**

Provide information about the employers in Canada, such as:

- Rolls-Royce Canada,
- Standard Aero,
- Aerospace and Defence Industries Association of Nova Scotia (ADIANS),
- Air Canada Technical Services,
- CHC Helicopter Corporation,
- Field Aviation,
- Goderich Aircraft Inc.,
- Canadian Heli Structures Ltd., and
- Bombardier.

Information on these employers can be found at [Annex B](#).



Learning Station Two

Provide information about the career options in Canada, such as:

- aircraft gas turbine engine repair and overhaul technician,
- aircraft interior technician,
- aircraft maintenance technician,
- avionics maintenance technician,
- aircraft structures technician,
- aviation ground services attendant, and
- aviation and aerospace engineers.

Information on these careers can be found at [Annex C](#).



Learning Station Three

Provide information about education and training institutions, such as:

- Simon Fraser University,
- Canadore College of Applied Arts and Technology,
- Centennial College,
- McGill University,
- École des métiers de l'aérospatiale de Montréal,
- Gander Aerospace Training Centre,
- Holland College,
- University of Calgary,
- Nova Scotia Community College, and
- Buffalo School of Aviation.

Information on these education and training institutions can be found at [Annexes D to F](#).

ACTIVITY

Time: 50 min

OBJECTIVE

The objective of this activity is to introduce the cadets to the aircraft maintenance and manufacturing industry.

RESOURCES

Handouts located at [Annexes B to F](#).

ACTIVITY LAYOUT

Create three learning stations in the classroom.

Place copies of the handouts for each cadet at the corresponding learning station.

ACTIVITY INSTRUCTIONS

1. Divide cadets into three groups.
2. Have each group start at different learning stations.
3. Each group will spend 15 minutes at each learning station.
4. After 15 minutes have each group rotate to the next learning station.
5. Rotate the groups until each group has visited all three learning stations.

SAFETY

N/A.

CONFIRMATION OF TEACHING POINT 1

QUESTIONS

- Q1. Share with the class, three pieces of information about aircraft maintenance and manufacturing, that interested you.
- Q2. Why did you find this information interesting?
- Q3. Name an education or training institution in your area.

ANTICIPATED ANSWERS

- A1. Answers may vary.
- A2. Answers may vary.
- A3. Answers may vary.

END OF LESSON CONFIRMATION

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

CONCLUSION

HOMEWORK/READING/PRACTICE

N/A.

METHOD OF EVALUATION

N/A.

CLOSING STATEMENT

Introducing education and employment opportunities in aircraft manufacturing and maintenance will help the cadet gain an awareness of the industry and may develop their interest in future opportunities in the aircraft manufacturing and maintenance industry.

INSTRUCTOR NOTES/REMARKS

N/A.

REFERENCES

- C3-101 Canadian Aviation Maintenance Council. (2006). *Careers in Aviation and Aerospace*. Ottawa, ON: Government of Canada's Sector Council Program.
- C3-102 Canadian Aviation Maintenance Council. (2007). *Index of Corporate Profiles*. Retrieved 23 February 2007, from <http://www.camc.ca/en/CorporateProfiles/>.

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