



AREG 250 - Introduction to Canadian Aviation Regulatory Requirements

Course Description:

Canadian Aviation Regulations (CARs) are the regulations and standards for the aircraft industry in Canada. This course provides the learner with a basic understanding of the CARs system as an introduction to accessing and navigating within CARs. The learner will use computer-based learning and classroom theory to develop the skills they will need for using the CARs in a workplace environment.

1.5 credits

Time Guidelines:

The standard instructional time for this course is 45 hours.

Effective Year

2019/2020

Accrediting Body/Professional Designation(s):

Cross-referenced to Transport Canada (TC) Curriculum and Topic Guides (CAR 566 Appendix C).

Course Assessment:

Exams	55%
Assignments and Quizzes	45%
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Total:	100%

Aviation Programs Accreditation Compliance: The learner will be issued a 'Statement of Aviation Programs Accreditation Compliance' if he/she achieved a mark of 70% or higher in all courses and met all attendance requirements.

Overall attendance for the program must be 95% or above to qualify for applicable experience credit as awarded by Transport Canada (TC).

Learners should also refer to the School of Transportation Program Guideline - Aircraft Maintenance Engineers Technology for additional course attendance requirements.

SAIT Policies and Procedures:

For information on the SAIT Grading Scale, please visit policy AC 3.1.1 Grading Progression Procedure: [http://www.sait.ca/Documents/About SAIT/Administration/Policies and Procedures/AC.3.1.1 Grading and Progression Procedure.pdf](http://www.sait.ca/Documents/About%20SAIT/Administration/Policies%20and%20Procedures/AC.3.1.1%20Grading%20and%20Progression%20Procedure.pdf)

For information on SAIT Academic Policies, please visit: www.sait.ca/about-sait/administration/policies-and-procedures/academic-student

Required Course Publication(s):

Fraser, B. (2011). *CARs for the AME: Canadian Aviation Regulations Study Guide for Aircraft Maintenance Engineers*. (7 ed.). Navion Co.

Course Learning Outcome(s):

1. Explain how the Canadian Aviation Regulatory (CARs) requirements apply to the aircraft industry. (TC: 566.13 (a) (ii); 566.14 (a) (i); 566.14 (b) (ii); 566.15 (b) (ii))

Objectives:

- 1.1 Identify the major governing bodies regarding aviation in Canada and worldwide.
- 1.2 Associate the governing bodies with the processes used to establish and implement Canadian aviation authority.
- 1.3 Differentiate regulations and standards using the CARs numbering system.
- 1.4 Demonstrate how to access CARs and navigate in it (locate a given section in CARs).
- 1.5 Summarize the General Provisions in CARs that govern the aircraft industry.
- 1.6 Compare and contrast continuing airworthiness with continued airworthiness.
- 1.7 Identify the components of the Safety Management System.
- 1.8 Identify supporting Continuing Airworthiness publications from Transport Canada.

2. Examine the regulatory requirements for manufacturing and distributing aeronautical products. (TC: 566.13(a) (ii))

Objectives:

- 2.1 Summarize how an aircraft goes from design to a Certificate of Airworthiness.
- 2.2 Identify the different types of certificates for aeronautical products.
- 2.3 Identify the different types of Flight Authority and their applications.
- 2.4 Describe the different methods for allowing changes in a type design.
- 2.5 Explain the requirements for Instructions for Continued Airworthiness documentation.

3. Explain the CARs requirements for identification of aircraft and aeronautical products. (TC: 566.13 (a) (ii))

Objectives:

- 3.1 Describe the requirements for aircraft nationally and registration marks.
- 3.2 Describe the regulatory requirements for owners registering an aircraft in Canada.
- 3.3 Locate information about aircraft registered in Canada using the Canadian Civil Aircraft Register.
- 3.4 Describe the regulations and standards for identification of aeronautical products.

4. Explain the regulations pertaining to personal licensing and training. (TC: 566.13 (a) (ii))

Objectives:

- 4.1 Describe the regulations and standards that apply to the AME license.
- 4.2 Describe the privileges for the various AME licenses.
- 4.3 Describe the requirements that must be met prior to issue or endorsement of an AME license.
- 4.4 Summarize conditions that must be met to exercise privileges and maintain the AME license.

5. Explain the regulatory requirements relating to the maintenance of aircraft. (TC: 566.13 (a) (ii))

Objectives:

- 5.1 Differentiate between maintenance and specialized maintenance.
- 5.2 Locate required maintenance standards for a given task on an aircraft.
- 5.3 Identify the requirements for the acceptance of parts and materials.
- 5.4 Describe the regulatory requirements for maintenance releases.
- 5.5 Define an Approved Maintenance Organization.
- 5.6 Identify the different categories for an Approved Maintenance Organization.
- 5.7 Define the requirements for establishing an Approved Maintenance Organization.

6. Explain the regulatory requirements for Technical Records. (TC: 566.14 (a) (i); 566.14 (b) (ii); 566.15 (b) (ii))

Objectives:

- 6.1 Locate the regulations and standards for Technical Records.
- 6.2 Describe the requirements for the recording of maintenance work.
- 6.3 Explain the requirements for certifying maintenance.
- 6.4 Describe the regulatory requirements for Service Difficulty Reporting.
- 6.5 Describe the procedures applying to Airworthiness Directives.
- 6.6 Describe the requirements for an Authorized Release Certificate.

7. Explain the system of regulation for aircraft operators. (TC: 566.13 (a) (ii); 566.14 (a) (i), 566.15 (b) (ii))

Objectives:

- 7.1 Identify the different types of aircraft operators.
- 7.2 Describe the general operating and flight rules for aircraft.
- 7.3 Locate the regulations and standards for Approved Maintenance Schedules.
- 7.4 Describe the requirements for Approved Maintenance Schedules.
- 7.5 Identify the privileges and responsibilities associated with owner-performed work.
- 7.6 Describe the maintenance requirements for air operators.
- 7.7 Describe requirements for an Annual Airworthiness Information Report.

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