

## APPENDIX E

### EVALUATE ECAR PART 147 AVIATION MAINTENANCE TRAINING CENTER'S CURRICULUM/REVISION

<b>CONTENTS</b>		
<b><u>Paragraph</u></b>		<b><u>Page No.</u></b>
E.1	Objective	3/5
E.2	Definitions	3/5
E.3	Background	4/5
E.4	Curriculum Requirements	4/5
E.5	Scheduling of Tests	5/5
E.6	Grading Criteria	5/5
E.7	Makeup Provisions	5/5
E.8	Revisions to Curriculums	5/5

**E.1 Objective.**

This chapter provides guidance for evaluating the curriculum or curriculum revision of an Aviation Maintenance Training Center certificated under ECAR Part 147.

**E.2 Definitions.**

- (a) **Course.** A program of instruction to meet requirements for airman training, certification, qualification, authorization, or currency.
- (b) **Courseware.** Instructional material developed for each course or curriculum, including lesson plans, flight event descriptions, computer software programs, audiovisual programs, aircraft operating manuals, workbooks, checklists, and handouts.
- (c) **Curriculum.** A specific course or courses of study or, collectively, all the courses of study at a training center. It may be identified as either a "core" or "specialty" curriculum. Components of a curriculum are called curriculum segments.
- (1) ***Core Curriculum.*** A document approved by the FSSS that contains airman certification requirements. Each curriculum segment includes consideration of an applicant's training and experience and training and testing procedures. A core curriculum may include training to meet part or all of the current requirements of parts 65, 121 or 147. It may also contain curriculum segments for re-qualification (refresher). It does not include training for tasks and circumstances unique to a training center client (such as equipment differences training).
- (2) ***Specialty Curriculum.*** A specialty curriculum is an FSSS-approved document that contains operator-specific training that is unique to a training center client; for example, basic indoctrination, or differences training. The ECAA inspectors should accomplish a comprehensive review before approval.
- (3) ***Curriculum Segments.*** Integral parts of a curriculum that can be separately evaluated and individually approved but, by themselves, do not qualify a person for a certificate or rating; for example, for an airplane type, airframe theoretical segment, avionics theoretical segment, power plant theoretical segment, or on the job training segment.
- (d) **Element.** An integral part of a module that is subject-oriented; for example, electrical inverter, landing gear actuator, thunderstorm characteristics, or knowledge of steep turns, stalls, or glides.
- (e) **Lesson.** One event or element, or part of an event or element, to be learned or taught, usually during one period of instruction.
- (f) **Module.** A subpart of a curriculum segment that constitutes a logical, self-contained unit. A module contains elements or events that relate to a specific

subject; for example, hydraulic system, flight controls, flight director, or electrical power generation.

(g) **Quality Standards.** A center's highest priority is to develop, in the student, those manipulative skills needed to stimulate return to service. However, it is not necessary for the training aid itself to meet "return to service" standards.

(h) **Syllabus (Lesson Plan).** An arrangement of subjects in lesson format, which are to be presented in learning order sequence. It includes scheduled hours, media, methods, and courseware. It is not an integral part of a curriculum but is used to implement a curriculum. An acceptable syllabus is required for each curriculum.

### **E.3 Background.**

ECAR 147.7 sets forth the general curriculum requirements. Maintenance of curriculum requirements is set forth in ECAR 147.9.

### **E.4 Curriculums Requirements.**

The curriculum or revision must be approved by the ECAA.

An Aviation Maintenance Training Center must adhere to its approved curriculum. Any new course material the center wishes to add must be incorporated into the approved curriculum and approved by the ECAA before it may be used. This does not prohibit a center from teaching unapproved courses, such as courses for non-certifying technical staff, courses to increase the technical knowledge of functioning technical staff, or academic courses. However, those courses must be clearly distinguishable from approved Aviation Maintenance Training Center courses.

The ECAR Part 147 curriculum will consist of the following for each subject:

- \* Subjects taught
- \* Course content
- \* Teaching level requirements
- \* Test requirements
- \* Classroom or theory hours
- \* The total number of hours required for the successful completion of the training
- \* Practical, field trips, and hands on training hours
- \* List the training aids and equipment necessary for the successful completion of the training
- \* A schedule of required exams or quizzes
- \* References, from which curriculum parts are extracted, and which conform with, the approved publications of the manufacturer or ICAO or other approved training center should be specified.

The following are general requirements to be fulfilled by each approved curriculum:

- a- These curriculums should provide the minimum level of knowledge and experience required in ICAO Annex 1.
- b- They should conform with the knowledge level defined in the ICAO training document ( to specified field ).
- c- It is preferable to conform with the corresponding curriculums used in the international training centers of aircraft's manufacturers and their units.
- d- A syllabus should be set to each curriculum including a schedule for each part of the curriculum such that it could be suitable to the trainees level, and could be efficiently realized in practice.
- e- The sequential order to follow in teaching the curriculum parts, and also the intermediate steps, to identify different level of trainees, if any, should be specified in the syllabus.

### **E.5 Scheduling of Tests.**

Upon completion of each curriculum module a test must be scheduled. In addition, quizzes may be scheduled between subject elements.

### **E.6 Grading Criteria.**

Accepted standard for passing is a minimum of 70 percent. However, the Aviation Maintenance Training Center may require a higher minimum passing grade. All theoretical and practical portions of each subject listed in the curriculum must be passed to the approved grading standard.

### **E.7 Makeup Provisions**

- (1) The curriculum must show the number of hours of allowed absences.
- (2) All material missed shall be made up in the same subject area.

### **E.8 Revisions To The Curriculum.**

Changes to the approved curriculum must be approved before implementation. Changes in the curriculum may include changes in any of the following:

- \* Teaching level
- \* Hours of instruction
- \* Testing
- \* Makeup provisions
- \* Course content
- \* Equipment or facilities affecting instruction in theoretical subjects or the accomplishment of practical training.
- \* Order of instruction