

Partnership between the FAA and Singapore Aviation Academy (SAA) AIR Training Proposal

Submitted by (name, OPR, telephone #, email):

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Course Name:

FAA Articles; FAA Parts Manufacturer Approval (PMA), Commercial Parts, and Standard Parts

Course Objective:

- 1- Truncated history of the article approval regulations (21.8/21.9)
- 2- Explain the process of applying for and obtaining a FAA PMA approval (from the FAA and applicant perspectives). What the final approval means to the FAA and to the PMA holder. Reinforce the process explanation by working through representative examples and discuss one or more proper methods for issue resolution used by the FAA.
- 3- Explain the process of applying for and obtaining a Commercial Parts approval (from the FAA and applicant perspectives). What the final approval means to the FAA and to the approval holder. Reinforce the process explanation by working through representative examples and discuss one or more proper methods for issue resolution used by the FAA.
- 4- Explain the process of applying for and obtaining a Standard Parts acceptance (from the FAA and applicant perspectives). What the final acceptance means to the FAA and to the holder. Reinforce the process explanation by working through representative examples and discuss one or more proper methods for issue resolution used by the FAA.
- 5- Explain how these various processes work together and within the FAA regulatory framework and how the aviation industry has applied them in the past and moving forward.

Course Description:

Top level study of the FAA's approval/acceptance of articles (i.e. PMA process, commercial parts, and standard parts. Course will provide instruction on the relevant regulations, historical findings as well as including examples and descriptions from the industry and FAA perspective. Additionally this course will provide an overview of the history of the 14 CFR 21.8 and 21.9 for context.

Course Outline (high level framework, sub-topics):

- 1- 14 CFR 21.8/21.9 overview
 - a. Understanding the history of replacement and modification articles
- 2- Explanation of Order 8110.42D
 - a. FAA perspective
 - b. Industry perspective
- 3- Explanation of AC 21.303-4
 - a. Applicant perspective
 - b. FAA perspective
- 4- Explanation of Order 8120.22 (relative to PMA only)
 - a. FAA Perspective
 - b. Applicant perspective
- 5- Explanation of Order 8110.119
 - a. FAA perspective
 - b. Industry perspective
- 6- Illustrative examples for PMA
 - a. Group activities

- b. Open Q&A
- 7- Explanation of Order 8110.118
 - a. FAA perspective
 - b. Industry perspective
- 8- Explanation of AC 21-45
 - a. FAA perspective
 - b. Industry perspective
- 9- Illustrative examples for Commercial Parts
 - a. Group activities
 - b. Open Q&A
- 10- Explanation of AC 21-29C
 - a. FAA perspective
 - b. Industry perspective
- 11- Explanation of AC 21-62E
 - a. FAA perspective
 - b. Industry perspective
- 12- Explanation of Federal Register, V62 #43 of 05-Mar-1997
 - a. FAA perspective
 - b. Industry perspective
- 13- Illustrative examples for Standard Parts
 - a. Group activities
 - b. Open Q&A
- 14- Final Exam ???

Instructor Name(s), Title:

Robert Sprayberry, 202-267-1655, Robert.sprayberry@faa.gov
AIR-110 policy holder and subject matter expert for PMA, Commercial Parts, and Standard Parts

Duration:

3 Days (illustrative examples and Q/A can allow flexibility)

Target Audience (e.g., CAA, industry, engineers, inspectors, etc...):

CAA, industry, engineers, inspectors