



FAA Type Certification Plan Development (AERO0562)

Instructor: Travis L. Dahna

Course Description

This course will prepare you to develop a thorough FAA certification plan/project specific certification plan (CP/PSCP) that meets the requirements of Order 8110.4C associated with new type certification projects. Tools for developing a robust compliance checklist (CCL) and the use of appropriate means of compliance will be discussed in detail, including the necessary sections, required information and how to define the appropriate documentation supporting those means of compliance. You will utilize the outline and sample template of a certification plan, which can be crafted to meet your project's specific needs. You will also become familiar with the requirements and activities associated with an FAA conformity plan.

This course requires background knowledge of the FAA organizational structure and certification process and is the third course in the following three-part FAA course series:

1. Introduction to FAA Airworthiness Approval Requirements
2. FAA Type Certification Process
3. **FAA Type Certification Plan Development**

Prerequisite: Before registering for this course, it is required you have completed the first two courses of the series, Introduction to FAA Airworthiness Approval Requirements and FAA Type Certification Process, or have significant experience working in the FAA type certification process.

Who Should Attend?

Those actively involved in product or article certification (aircraft/equipment OEM, aircraft modifiers, suppliers and ODA personnel) including airworthiness engineers, consultants, certification specialists, FAA designees (engineering/manufacturing), and FAA Organization Designation Authorization (ODA) unit and support personnel.

Learning Objectives

- Understand the need for a proper Certification Plan/Project Specific Certification Plan (CP/PSCP), Compliance Checklist (CCL), and Conformity Inspection Plan (CIP) supporting a type certification project.
- Review a type certificate data sheet to produce a CCL that matches the certification basis of the aircraft or propose a new certification basis associated with the new type certificate project.
- Accurately identify the typical means of compliance, associate them with project activities/documentation and thoroughly explain the proposed change to the aircraft.
- Use FAA accepted means of compliance guidance to support proper showing activities for the associated project.

Course Outline

Day One

- Introductions/Team Formation
- Review of Title 14 Code of Federal Regulations, FAA Orders, Advisory Circulars, and Memorandums
- Review of Title 14 Code of Federal Regulations, Parts 1, 21, 23, 25, 26, 27, 29, 33, and 183
- Review of FAA Orders and guidance material to assist in the FAA Type Certification Process
- Building Blocks for a Certification Plan
- Development of a strong project description (how much is enough)
- Factors to consider when developing a certification schedule

Day Two

- Pitfalls to avoid when developing a comprehensive certification approach
- Explaining project personnel roles
- Developing a Compliance methodology and why it is imperative
- As available, team interaction and planning for final project and presentation

Day Three

- Compliance Checklist components
- Conformity Inspection Plan development
- Team assignments for certification plan development

Day Four

- Team interaction and planning for final project and presentation

Day Five

- Presentation of certification plan, compliance checklist, and conformity plan

Classroom hours / CEUs

31.5 classroom hours

3.15 CEUs

Certificate Track

Aerospace Compliance

Course Fees

Early registration course fee: \$2,595 if you register and pay by the early registration deadline (45 days out).

Regular registration course fee: \$2,795 if you register and pay after the early registration deadline.

Course Materials

Course materials, including outlines, presentation copies, and supplementary materials, will be accessible through Canvas, KU's online learning system. Instructions to access Canvas will be provided upon completed registration. Students are required to bring a computer or other electronic device with PDF-viewing capabilities with them to class each day. If you require accommodation contact us at professionalprograms@ku.edu and we will work with you on an accessible solution.

U.S. Federal Employee Discount

This course is available to U.S. federal employees at 10% off the registration fee. To receive the federal employee discount, you must enter the code FGVT116 during the checkout process. Please note that you must validate your eligibility to receive this discount by entering your U.S. government email address (ending in .gov or .mil) when creating your online registration profile. This discount is available for both the early registration and regular registration fees.

Instructor Bio

Travis L. Dahna is the founder and principal engineer for TD Aerospace LLC, a service-disabled veteran owned small business. He started his career 30 years ago as an avionics technician and troubleshooter in the United States Navy, where he served with distinction and was honorably discharged.

As a Gulf War veteran, Mr. Dahna joined the civilian aviation sector where he has worked on, designed, and certified a wide variety of new products and articles for the last 25 years. He has held positions as a senior electrical engineer for a large aircraft manufacturer and served as the certification coordinator for all the factory owned service/modification centers in the United States, providing required interface with the geographic FAA offices. Following his time at the aircraft manufacturer, he assisted in the development and management of multiple Supplemental Type Certification (STC) Organization Designation Authorizations (ODA), holding positions as Principal Certification Engineer, Director of Engineering, and ODA administrator.

He has been actively involved in several hundred certification projects, ranging from TC, STC, PMA, TSO, major alterations, and major repairs. In addition to duties as a consultant DER (14 CFR Part 23 and 25), he holds positions as a unit member on several TC and STC Organization Designation Authorizations (ODA). Mr. Dahna's combination of practical experience, analytical

knowledge, and in-depth certification experience brings a unique and viable approach to aircraft certification in an uncomplicated yet thorough manner.

This class is available for delivery at your company.

Your company can realize substantial savings by bringing an aerospace short course to your workplace. On-site delivery is ideal for organizations that need to train 10 or more employees on a specific topic. For more information on on-site course delivery, or to request a cost proposal, please contact us at ProfessionalPrograms@ku.edu.

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