Complex Electronic Hardware Development and DO-254
Instructor: Jeff Knickerbocker

SEATTLE, WASHINGTON
April 12–14, 2016
Tuesday–Thursday,
8:00 a.m.–4:00 p.m.
Course Number AA161380

CEUS
21 classroom hours
2.1 CEUs

COST $1,895
Includes instruction, course materials, refreshments and lunches.

EARN A CERTIFICATE
This course is part of the Certificate of Specialization in Avionics and Avionic Components.

Description
This course provides the fundamentals of developing and assessing electronic components to the standard RTCA/DO-254 Design Assurance Guidance for Airborne Electronic Hardware. It is designed for developers, avionics engineers, systems integrators, aircraft designers and others involved in the development or implementation of complex electronic hardware (application-specific integrated circuits, field-programmable gate arrays, etc.). The course also provides insight into the FAA’s review process and guidance and provides practical keys for successful development and certification. Practical exercises and in-class activities will be used to enhance the learning process.

Highlights
• The course addresses RTCA/DO-254 as applied via FAA Advisory Circular AC20-152
• FAA Order 8110.105 is addressed as are current standard EASA certification review items and FAA issue papers
• Potential deficiencies in current regulatory guidance material is addressed versus the current state of practice verification techniques
• Best practices for requirements capture and subsequent verification methodologies are discussed
• White papers will be provided—some out-of-class reading will enhance the participant’s experience

Who should attend?
Designed for developers, avionics engineers, systems integrators, aircraft designers and others involved in development or implementation of complex electronic hardware and programmable devices (application-specific integrated circuits, field-programmable gate arrays, etcetera.)

“After completing the class, I feel that I now have a much better understanding of the requirements and expectations of this guidance, as well as how it is applied in the industry. Overall, I enjoyed the class, took a lot of notes and plan to share the knowledge that I have gained with my department as well as others within my organization. Thank you for a quality job.”

—Frank D’Onofrio, Senior Software Quality Engineer