FAA Academy
Federal Aviation Administration

AIRCRAFT CERTIFICATION SERVICE

FAA22100001: Airborne Electronic Hardware Job Functions

PURPOSE

This course describes the FAA's role in the airborne electronic hardware (AEH) approval process, applicable policy, and guidance for finding compliance for both simple and complex airborne electronic hardware.

The following information is discussed: Aircraft Certification's AEH Job Aid for conducting the AEH development process reviews, RTCA/DO-254, FAA AEH Order, and other special engineering topics used to substantiate AEH.

COURSE OUTCOMES

Upon completion of the course, participants will :

- Understand FAA's role in AEH projects.
- Have the knowledge and skills necessary to evaluate and approve AEH processes and life cycle data.
- Have knowledge of AEH related FAA policy, guidance and other documents (e.g., AC 20-152, CAST Papers, DO-178B, ARP 4754, ARP 4761).

TARGET AUDIENCE

The target audience for this training includes

- Aviation Safety Engineers (ASEs) responsible for approving or reviewing systems involving AEH
- HQ and Directorate Standards Staff responsible for policy development related to AEH
- Designees who conduct AEH reviews, and
- International certification authorities.

PREREQUISITES

Attendees have had:
- Software Fundamentals (FAA21030) or equivalent AND
- Software Job Functions course or equivalent

Note: Software Job Functions course may be either (1) FAA course FAA21045 or (2) FAA courses FAA25951 and FAA25952 for Comm/Nav/Surveillance personnel. If the second option is chosen, both courses FAA25951 and FAA25952 must be taken to meet the prerequisite.

DELIVERY METHOD

This course is delivered as Instructor-led training. Attendees demonstrate their understanding by working through exercises that simulate various stages of AEH review.

INSTRUCTORS

- Tammy Reeve, FAA DER
- Dennis Wallace, ASW-170

ENROLLMENT INFO

- FAA Employees: Contact your Division or Directorate AIR Training Manager (ATM).
- Non-FAA Employees: Contact the AEH Course Manager, Gerald Pilj, at (405) 954-0570.
- Attendees requiring disability accommodations: Contact the AEH Course Manager, Gerald Pilj, at (405) 954-0570.

LOCATION & DATES

- FAA Academy Oklahoma City, Oklahoma
- June 1-5, 2009