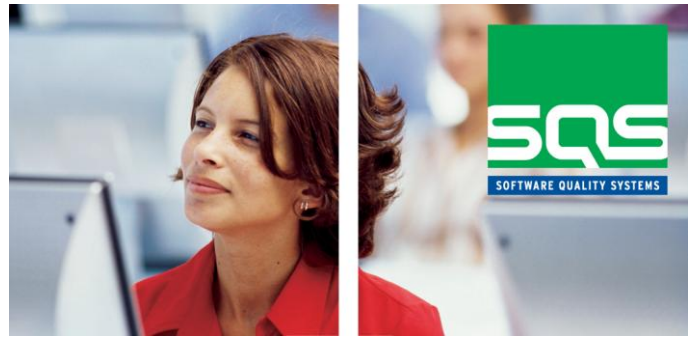


Successful implementation of software projects using ED-12B/DO-178B

Q22030

2 days



Course Overview

Similar to other industrial areas, aircraft manufacturing companies are using software for control and monitoring of complex embedded systems. The complexity of the overall systems and the criteria of the standard DO-178B/ED-12B “Software Considerations in airborne system and equipment Certification” set particularly high requirements for the development departments. In the airborne segment in addition to the quality, the time-to-Market is decisive for success.

In increasingly shorter development cycles new products must be provided.

The definition of suitable development processes, verification / validation steps and tests, as well as an effective project management and a systematic change and configuration management are necessary activities, in order to meet these requirements.

Using software on an aircraft a high level of quality shall be ensured to satisfy the adequate safety. ED12B/DO-178B defines several development and quality objectives which need to be implemented and conducted by the software producing units to ensure this safety. Scale, the number and complexity of requirements coming from this standard are depending on the defined “design assurance level” (DAL) which shall be chosen for the system / equipment.

Participants of this seminar get an overview of requirements and objectives of ED-12B/DO-178B for the development of airborne software. Details but also the global context will be presented and discussed. Additionally the relationship to specific EASA and FAA guidelines and certification aspects are presented.

Course Objectives

- Motivation based on aircraft certification and safety considerations
- Overview and structure of ED-12B/DO-178B
 - o Software Planning Process
 - o SW Development Process (Requirements, Design, Coding, Integration)
 - o SW Verification Process
 - o SW Configuration Management Process
 - o SW Quality Assurance Process
 - o Certification Liaison Process
- SW Lifecycle Data
- DO-178B Additional Considerations (e.g. COTS, Tool qualification)
- Comparison between software level A/B/C/D
- Certification Considerations and additional FAA / EASA guidelines, Airbus standards, CRI applicability.

Who should attend?

Software Engineers, Software Manager, Test managers, quality assurance specialists, quality managers, managers for process definitions, Specialists for methods and procedures.

Prerequisites

None

Related Certifications

None

Recommended Follow-on Courses

None



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