

DO-254 Training course

Hardware System Design Training

Objectives

- Manage Hardware projects under latest DO-254 guidance.
- Provide an overview of mandatory activities required by Certification authorities.
- Understand DO-254 rationale
- Reduce Cost and Risk of avionics certification
- Adopt cost effective activities, check-lists and methods to meet your objectives

Intended Audience

- Military or Avionics Hardware Project Leaders
- ASIC & FPGA Digital Design Engineers
- Hardware Design Engineers
- Quality Assurance Engineers
- All people involved in system design

3 Days of intensive training

- Day 1
 - Overview of Avionics Certification
 - Requirement Capture – Validation
- Day 2
 - Conceptual & Detailed Design
 - Verification Activities
- Day 3
 - Supporting processes
 - Advanced Consideration

Detailed Agenda

- Introduction – DO-254 Scope
 - Relation with system development
 - Design Assurance Level
 - Verification / validation definitions
 - Independence consideration
 - Simple / Complex
 - Board design
- Planning & Standards
 - System PHAC example
 - Others plans illustrated
- Design Processes
 - Requirement Capture
 - Conceptual & Detailed Design
 - Hardware Software Interface Data
 - Acceptance Test
 - Production
- Verification Process
 - Independence
 - Cases & Procedures
 - Acceptance Criteria
 - Verification Results
 - Robustness
 - Traceability
- Supporting Processes
 - Configuration Management
 - Identification and Baseline
 - Change and Problem management
 - Process Assurance Activities
 - Reviews, Audit.
 - Certification Liaison Process
- Advanced Considerations
 - ReUse
 - COTS / IP usage
 - Service Experience
 - Tool Assessment
 - Tool Qualification – DO-330
- Modulation based on DAL
- Consideration for Level A&B
 - New tools
 - Advanced Methodologies

The Company

SILKAN develops and integrates leading-edge simulation-based solutions to support design, optimization, test, operation and maintenance of complex systems.

We contribute to bring a high level safety to electronic embedded systems deployed in the civil aviation, defense, transports and medical industries with DO-254 certification services.

SILKAN experts of DO-254 compliance have more than 10 years' experience in DO-254 development.

SILKAN provides the following products and services to all industries where DO-254 is mandatory.

- Portfolio of DO-254 Compliant semiconductor Intellectual Property
- DO-254 design services (IP, FPGA, Board, Equipment)
- Certification Services (Audit, Review, Assurance Process, SOI)

Contact us for further details at:

www.silkan.com/contact