

## DO-254 Training Course

 **3 Days**

### 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



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# 3 Days of intensive training

Day	Program
1	<ul style="list-style-type: none"><li>- Overview of Avionics Certification</li><li>- Requirement Capture – Validation</li></ul>
2	<ul style="list-style-type: none"><li>- Conceptual &amp; Detailed Design</li><li>- Verification Activities</li></ul>
3	<ul style="list-style-type: none"><li>- Supporting processes</li><li>- Advanced Consideration</li></ul>

## 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

## 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
- Other 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.
- Acceptance Test
- 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



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