



DO-178 Training Course

Presented by Greg Turgeon
FAA Designated Engineering Representative



Day 1

Overview of DO-178	8:00 – 9:30
Break	9:30 – 9:45
DO-178C and the Supplements	9:45 – 10:30
System Safety, Planning Phase, and the PSAC	10:30 – 11:30
Lunch	11:30 – 12:30
System Safety, Planning Phase, and the PSAC (continued)- including	12:30 – 1:30
Hands-on Exercise: Determining the Software Design Assurance Level	1:30 – 2:00
Break	2:00 – 2:15
Hands-on Exercise: Planning Documents	2:15 – 3:15
Software Development Lifecycle	3:15 – 4:30

Day 2

Software Development Lifecycle (Continued)	8:00 – 8:30
Software Requirements Process - Formal Methods	8:30 – 9:30
Break	9:30 – 9:45
Software Design Process - Model Based Design	9:45 – 10:45
Software Coding Process - Object-oriented Technology	10:45– 11:30
Lunch	11:30 – 12:30
Hands-on Exercise: Software Lifecycle	12:30 – 1:15
Software Verification Process: Non-Testing Activities	1:15 – 2:00
Break	2:00 – 2:15
Software Verification: Testing Activities	2:15 – 3:15
Hands-on Exercise: Test Case and Structural Coverage	3:15 – 4:30

Day 3

Software Verification: Testing Activities (continued)	8:00 – 8:45
Hands-on Exercise: Test Case and Structural Coverage	8:45 – 9:30
Break	9:30 – 9:45
The Certification Process and the FAA/DER	9:45 – 10:15
Software Quality Assurance	10:15 – 10:45
Software Configuration Management	10:45 – 11:30
Lunch	11:30 – 12:30
Special Topics: Additional Considerations	12:30 – 1:15
Hands-on Exercise: Tool Qualification	1:15 – 1:30
Special Topics	1:30 – 2:15
Break	2:15 – 2:30
Putting it all together: SCI and SAS	2:30 – 3:30
Summary and Questions	3:30 – 4:30