

Safety Based System Development Lifecycle Training Course

 **3 Days**

Objectives

- Manage system development activities in aviation projects
- Understand SAE-ARP-4754A & SAE-ARP-4761 content
- Gather relations between safety and system development
- Informed about the key issues for an airworthy product design

Intended Audience

- Project Managers
- System Engineers
- System Design Engineers
- Process Assurance Engineers


Training Partner



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3 Days of intensive training

Day	Program
1	<ul style="list-style-type: none">- General overview of SAE-ARP-4754A & SAE-ARP-4761- System Development Lifecycle- Safety Process
2	<ul style="list-style-type: none">- System Development Process- Requirement Capture- System Architecture- FDAL & IDAL- Verification
3	<ul style="list-style-type: none">- Integral Processes- Case Studies

Detailed Agenda

Knowledge and application on SAE-ARP-4754A & SAE-ARP-4761

System Engineering Lifecycle

Relation between safety and system development

Importance of safety activities

SAE-ARP-4761 General View

Flight Safety & System Safety Approach

Hazards & Failures (definitions, failure modes, detection methods, examples)

Safety Criteria & Risk Based Approach

Functional Hazard Analysis (methods, applications, examples)

System Safety Assessment (Fault Tree Analysis, Dependency Diagrams)

Common Cause Analysis (PRA, ZSA, CMA)

Relation between safety and item development

SAE-ARP-4754A General View

SAE-ARP-4754A Activities

- Planning system development activities based on safety criticality
- Functional Definition
- Requirement generation, validation, management and traceability (checklists and examples)
- Requirement types and examples
- System Architecture and Allocation
- FDAL & IDAL related with safety activities
- System Integration & Verification activities

Integral Processes

- Configuration Management
- Process Assurance
- Certification Liasion

SAE-ARP-4754A objectives

Case studies (defining a system from specifications)

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