



Acceleration | Innovation | Development

ARP4754A - CIVIL AIRCRAFT AND SYSTEMS DEVELOPMENT

Duration: 2 Days

Language: DE/EN

SAE Aerospace Recommended Practice - ARP4754A provides guidelines for the development of an aircraft and aircraft systems considering the overall aircraft operating environment and functions. This includes validation of requirements and verification of the design implementation for certification and product assurance. Participants of this training get an insight of the processes of ARP4754 and are guided through it using appropriate examples and exercises of developing an aircraft and its systems.

Contents:

- ❖ Introduction, Process Overview and Objectives
 - ARP4754A – Aircraft & System Development Process
 - ARP4761 – Safety Assessment Process Guidelines and Methods
 - DO-178 – Software Development Life Cycle
 - DO-254 – Electronic Hardware Development Life Cycle
- ❖ Aircraft and System Development Process
 - Planning Phase (Development Plan, Safety Plan, Certification Plan...)
 - Functional Development and Requirements Determination
 - Assignment of DAL (FDAL, IDAL)
 - Development of Aircraft and System Architecture
 - Allocation of Functions to Systems and Items
 - Introduction to Item Development
 - Validation
- ❖ Safety Assessment Process
 - Functional Hazard Assessment
 - Preliminary Aircraft/System Safety Assessment
 - Aircraft/System Safety Assessment
 - Common Cause Analysis
- ❖ Implementation Verification
 - Verification Process Objectives
 - Verification Planning
 - Verification Methods
 - Verification Data
- ❖ Integral Processes
 - Configuration Management
 - Process Assurance

For more Information or if you need a customised training contact us through info@aid-innovation.de.

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