

## SAFETY SERVICES

SAE ARP 4761, SAE ARP 4754, Certification, FHA, FMEA, FTA, CCA, P/SSA

ENSCO has continued to grow into one of the key providers of Safety Services within the Aerospace Industry since the company began providing safety-critical software in 1983. Our breadth of resources, ranging from extensive engineering and design teams to independent Designated Engineering Representative (DER) support, offer custom services to meet your vital safety needs. ENSCO contracts consulting, training, auditing and on-site professional preparation services to ensure the success and safety of your program initiative.

### Capabilities

#### Civil Certification Services

ENSCO provides full independent DER support for safety approval by offering a wide range of FAA aircraft system and equipment certification and consultation services.

#### SAE ARP 4761 and SAE ARP 4754

Our expertise particularly focuses on Functional Hazard Analysis (FHA), Failure Mode and Effects Analysis (FMEA), Fault Tree Analysis (FTA), Common Cause Analysis (CCA), and Preliminary/ System Safety Assessment (P/SSA).

### Safety Assessment Techniques

#### Functional Hazard Analysis (FHA)

- Assessment of functions to identify and classify conditions of failure according to their severity
- Performed on two levels: aircraft and system

#### Failure Mode and Effects Analysis (FMEA)

- Analysis of individual probable and potential failures
- Solution offerings based on criticality



#### Fault Tree Analysis (FTA)

- System safety analysis tool communicating cause and effect relationships of undesirable potential events
- Vital in predicting future safety performance

#### Common Cause Analysis (CCA)

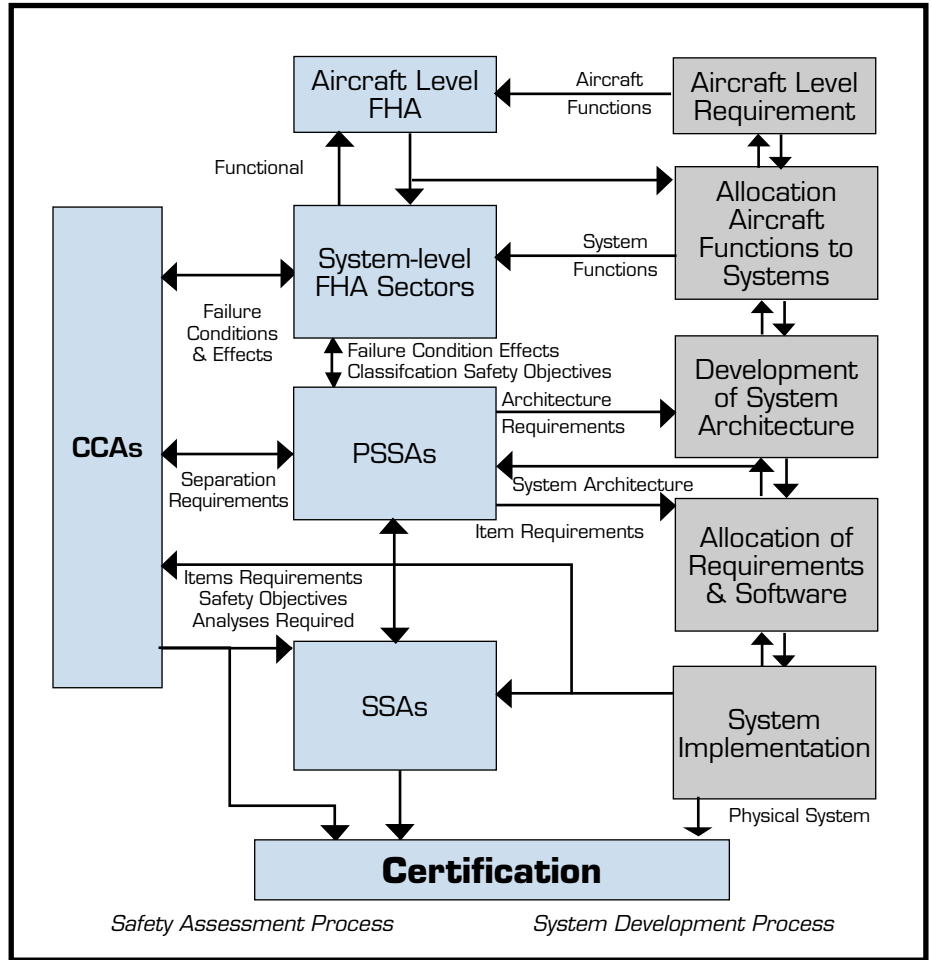
- Provides proof of required independence between all operating functions within a single system
- Serves as an essential addition to the FTA

**Preliminary/System Safety Assessment (P/SSA)**

- Identifies all critical safety requirements and objectives
- Reviews the implemented system to ensure that all requirements and objectives are met

ENSCO provides critical and cost-effective safety services that can save valuable time and money. Whether your safety needs require urgent attention to refocus your efforts to meeting critical scheduling deadlines or you desire expert consultation services to start your program off on the fast track please let ENSCO be your comprehensive safety solution.

**Safety Assessment Process Model**



**For more information,  
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