

Fuel Tank Safety Phase 2 - Recurrent

Certification:	2 Years
Previous requirements:	None.
Duration:	4 hours.
Duration E-Learning:	40 min.
Language:	English.
Price:	38€.
Tutor:	Brokair Aviation Academy instructor's team.



COURSE OBJECTIVES:

The aim is to provide update and refresh on historical events related to fuel tank safety issues and on the theoretical and practical elements of the subject, have an overview of the FAA regulations known as SFAR (Special FAR) 88 of the FAA and of JAA Temporary Guide TGL 47, be able to give a detailed description of the ALI fuel tank system concept (including the limitations of control of the critical design configuration CDCCL), and the use of theoretical foundations and specific examples. Provide knowledge to acquire the ability to combine and apply the independent elements of knowledge in a logical and complete manner, to become aware of how the above elements affect the aircraft, to be able to identify the components or parts of the aircraft subject to FTS of the manufacturer's documentation and to be able to plan an action or apply a Service Bulletin and an Airworthiness Directive.

REGULATION FRAMEWORK:

COMMISSION REGULATION (EU) No 1321/2014 of November 26, 2014, Annex II (Part 145), Appendix IV of AMC 145.A.30 (e) and 145.B.10 (3). Technical personnel from approved maintenance organizations, especially the technical personnel involved in the performance of CDCCL tasks, must acquire additional training in fuel tank safety, as well as associated inspection standards and maintenance procedures.

ADDRESSED TO:

Personnel of the approved maintenance organization Part 145 required to plan, perform, supervise, inspect and certify the maintenance of aircraft components and fuel systems.

CONTENT:

- Module 1.** Introduction.
- Module 2.** Main accidents related to the Safety in Fuel Tanks.
- Module 3.** Theoretical elements related to Safety in Fuel Tanks.
- Module 4.** Systems of Reduction of Flammability.
- Module 5.** Regulatory development.
- Module 6.** Results of the regulatory development.
- Module 7.** Maintenance Procedures
- Module 8.** Record of maintenance actions.

SYLLABUS

WHY DO WE NEED TO TAKE FUEL TANK SAFETY INTO ACCOUNT?

- PRECEDENT
- FUEL TANKS

INCIDENTS RELATED TO THE FTS

- PANAM B707-1963
- IRANIAN AIR FORCE B747-1976
- PAL B737-1990
- THAI B737-2001
- TWA B747-1996
- COMPARISON CHART BETWEEN ACCIDENTS
- COMMON ITEMS
- CONCLUSIONS

REGULATORY DEVELOPMENT

- INITIATIVES
- SFAR 88
- JAA INT/POL/25/12
- JAA TGL 47
- EASA POLICY STATEMENT
- REGULATION 2042/2003

POLICY DEVELOPMENT RESULTS

- ATSRAC/EZAP
- CDCCL
- ALI
- MODIFICATIONS SB

MAINTENANCE DOCUMENTATION

- MAINTENANCE INSTRUCTIONS
- INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

MAINTENANCE RECORDS

- REQUIREMENTS
- RECORDS

THEORY OF THE FTS (FUEL TANK SAFETY)

- FIRE TRIANGLE
- FIRE TETRAHEDRON
- AIR-FUEL MIXTURE
- PREVENTION OF EXPLOSIONS
- PREVENTION OF IGNITION
- FLAMMABILITY REDUCTION
- BASED ON THE FOAM
- BASED ON NITROGEN

SAFETY IN THE WORKPLACE

- TO CONSIDER
- RISKS ASSOCIATED WITH WORK IN FUEL TANKS
- SAFE ATMOSPHERE
- INDIVIDUAL PROTECTION EQUIPMENT
- WORK PROCEDURES
- WORK AREAS
- REMEMBER
- PRE-ENTRY CHECK-LIST