

Fuel Tank Safety, GROUPS 1 & 2 : RECURRENT TRAINING

MODULE 1 BACKGROUND

- 1.1- *Main accidents related to fuel tanks. Causes, analysis and conclusions*
- 1.2- *Applicable regulations. ED 2009/006R & ED 2009/007/R*

MODULE 2 FUEL TANK SAFETY CONCEPT

- 2.1- *Safety risks related to fuel tanks: explosions of air-fuel mixtures and their behavior in the aviation environment, effects of temperature and pressure, energy required for ignition*
- 2.2- *The Fire Triangle*
- 2.3- *Concepts for explosion prevention: prevention of ignition source and reduction of flammability*

MODULE 3 APPLICATION OF THE NEW REGULATION

- 3.1- *FAA SFAR 88 and JAA INT POL 25/12: initiatives and programs for the prevention of ignition. Objectives, identification of unsafe conditions and correction, systematic improvement of maintenance*
- 3.2- *Results of regulatory development: modifications, airworthiness limitations and CDCCL*

MODULE 4 MAINTENANCE DOCUMENTATION

- 4.1- *Management and interpretation of maintenance technical documentation*
- 4.2- *Management and interpretation of maintenance manuals*

MODULE 5 SAFETY IN FUEL TANKS DURING MAINTENANCE

- 5.1- *Work Procedures*

MODULE 6 FLAMMABILITY REDUCTION SYSTEMS

- 6.1- *Reasons for installation*
- 6.2- *Risks of the use of Nitrogen. Safety precautions*

MODULE 7 MAINTENANCE RECORDS

- 7.1- *Record maintenance actions*
- 7.2- *Record inspection results*