



TRAINING COURSE DETAILS

Fuel Tank Safety – 1 Day

INTRODUCTION

The course is designed to provide a thorough grounding in the understanding of Fuel Tank Safety (FTS) related issues.

In addition to provide a comprehensive understanding of the regulatory requirement for effective FTS compliance. Covering the wide range of topics required by the amendments, from the investigation of historical events driving the legislation, to its practical applications ensuring the continued airworthiness of affected aircraft, the course aims to succinctly and clearly communicate a complex and dynamic subject.

During the Training Delegates will consider specific organizational issues and responsibilities to maintain compliance including the following:

SFAR 88 of the FAA and JAA Interim Policy INT POL 25/12: ignition prevention program initiatives and goals, to identify unsafe conditions and to correct them, to systematically improve fuel tank maintenance), JAA Temporary Guidance Leaflet TGL 47. The basic elements of the fuel tank safety issues – Understanding of the background and the concept of fuel tank safety, Interpreting ICAW Instructions for continuing airworthiness. FRS -Flammability Reduction systems when installed: reason for their presence, their effects, the hazards of FRS using nitrogen for maintenance, safety precautions in maintenance/working with an FRS.

Detailed Content / Topics - The following Subjects will be addressed

- Introduction & Abbreviations Used
- FTS – Background: the explosions of mixtures of fuel and air, the behaviour of those mixtures in an aviation environment, the effects of temperature and pressure, energy needed for ignition etc, the 'fire triangle',
- Regulatory Overview – SFAR 88 of the FAA and JAA Interim Policy INT POL 25/12: ignition prevention program initiatives and goals, to identify unsafe conditions and to correct them, to systematically improve fuel tank maintenance), JAA Temporary Guidance Leaflet TGL 47.

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Detailed Content / Topics - The following Subjects will be addressed

- The basic elements of the fuel tank safety issues – Understanding of the background and the concept of fuel tank safety, Interpreting ICAW Instructions for continuing airworthiness.
- Case Studies Accidents & Incidents
- The need for Mitigation Strategies – Ignition source prevention.
- FRS – Flammability Reduction Systems when installed: reason for their presence, their effects, the hazards of an FRS using nitrogen for maintenance, safety precautions in maintenance/working with an FRS.
- Recording & Reporting – The Link to SMS Recording measures and results of inspections.
- Developing Procedures

Target groups

Phase 1 only: The Quality Manager and Quality Personnel.

Phase 1 + Phase 2 + Continuation training: Personnel of the M.A. Subpart G organization involved in the management and review of the continuing airworthiness of applicable aircraft

Part 145

Phase 1 only - Persons representing the maintenance management structure of the organization, the Quality Manager and the staff required to quality monitor the organization.

Phase 1 + Phase 2 + Continuation training: Personnel of the Part 145 approved maintenance organization required to plan, perform, supervise, inspect and certify the maintenance of aircraft and fuel system components of applicable aircraft.

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Pre-requisites

A background in an aviation environment.

Learning Objectives

The objectives of the course are:

- To familiarise delegates with the elements of fuel system safety issues including its language, history and practical considerations.
- To equip candidates in their everyday tasks to account for the challenges posed by the Fuel Tank System Safety issues.

Duration

1 day - The training will commence at 09.00 and finish at 17.30, with appropriate refreshment breaks.

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