

# Aircraft Accident Investigation Process & Procedures – 3 Days

## Introduction

The purpose of this 3 day in depth training is to consider the roles, responsibilities and obligations related to the process of accident investigation including an understanding of the different philosophies. This course will provide you with a detailed and basic understanding of the process of aircraft accident investigation and timeline construction process Aircraft accident and incident investigations typically calls on a multi discipline approach to fact finding reconstruction and determination, typically supported by subject matter experts in design, manufacturing, certification, together with inservice operation and maintenance. As a representative or stakeholder who is active in observing or supporting the process it is essential to have a strong understanding of aircraft accident investigation and reconstruction methodology.

## Who is the Course for?

It is for anyone with an interest to get deeper into the fundamentals of Aircraft Accident Investigation. The course is intended to provide participants with the basic tools by which they will be able to provide for and perform an investigation on organisational accidents, incidents and other safety related issues. Industry personnel who are wishing to achieve an overview of the various techniques, process and related understanding of human factors related to event analysis. Airline Operational, Safety Management System and Quality Staff who wish to achieve an understanding of the investigation process which provides you with the knowledge to support and participate in a formal investigations. CAA administrations, airport authorities, air navigation service providers (ANSP) and other related aviation organisations and stake holders.

## What is the Benefit of this Training – What will I learn?

- a) To achieve an understanding related to the investigation methodology to ensure compliance with legislation, regulations and national requirements.
- b) How to gather, manage, catalogue and ensure the integrity of the evidence
- c) Consider the impact of the operational and technical environment required to support the investigation
- d) Identify the key requirements and steps in the investigation process.
- e) Be able to assess human factor involvement throughout the chain of events
- f) Understand Certification and assessment related to crashworthiness
- g) Review methodologies associated with evaluation and analysis
- h) Understand the timeline construction process
- i) How to analyse evidence – due diligence and root cause determination.
- j) The construction of a final report which complies with the required framework

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**Date**

**Category**

Personal Development

Venue

Level

Price

## Why Should I choose SAS for the training?

Sofema Aviation Services is a Regulatory Training and Consulting company with 45 years of commercial aviation experience and 10 years operational experience. Since the start we have provided certificates to approx 25,000 delegates and we have grown for 2 primary reasons!

The first is that we are professional and we listen to our customers.

The second reason is a combination of outstanding course fees, together with a world beating discount program which leaves our competitors way behind – please do not take our word for it, [check it out!](#)

## What Makes SAS Aircraft Accident Investigation Process & Procedures – 3 Days Different?

Because our courses are written by people who have lived through the regulations. The author of the training material has more than 25 years' experience as an auditor across the entire regulatory spectrum.

At Sofema Aviation Services our focus is on accepting that compliance with Regulations is in fact minimum compliance. Interpreting the regulations in a way which enables the development and optimisation of our business is where we should see opportunity to drive efficiencies and cost saving.

## Detailed Content / Topics - The following Subjects will be addressed

### Day 1

- Abbreviations & Definitions
- The Goals and Objectives of Aircraft Incident Investigations
- Regulatory Background ICAO / EASA
- ICAO Annex 13 Introduction and Associated Documents
- ICAO Annex 19 & Components of an SMS System
- Introduction to the Task of Aircraft Accident Investigation
- Case Study No 1 (Optimised for Course Participants)
- Preparation and Independence
- Safety Management Fundamentals related to ICAO Annex 13
- Aircraft Certification Crashworthiness and Survivability

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## Detailed Content / Topics - The following Subjects will be addressed

### Day 2

- Considering the Legal Requirements for Incident Investigation and Reporting
- Investigation -Key Stages Review Fact Finding, Analysis, Conclusions, Recommendations, Final Report
- Case Study No 2 (Optimised for Course Participants)
- Managing Accident & Incident Data Sources
- Analysis of the Data typical Methods and Techniques
- Choosing the Investigation Model to Support this Event
- Advanced Analytical Procedures
- The Use of Reconstruction Techniques
- Building Conclusions Based on Analysis
- How to Approach Contributory Factors, Risk and Severity

### Day 3

- How we Measure and Categorize Risk
- Human Factors Considerations and Integration into the Aircraft Accident Analytical Process.
- Interview Preparation Techniques and Methods
- Investigator Responsibilities and Reporting Obligations
- Considering Mitigations and Recommendation Proposals
- Case Study No 3 (Optimised for Course Participants)
- Developing an Objective Report
- General Debrief and Close

## Target Groups

Airline Operational, Safety Management System and Quality Staff , CAA administrations, airport authorities, air navigation service providers (ANSP) and other related aviation organisations and stake holders.

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## Pre-Requisites?

Participants should have a strong aviation operational or technical background together with a functional understanding of the aviation industry. Delegates should bring their Lap tops as part of the training program.

## What do People Say about Sofema Aviation Services Training?

"The instructor used the right words to explain the material."  
"The discussions among the group were very beneficial."  
"The instructor showed a very resourceful background and experience."  
"All sections of the course were related to my field."  
"Adequate answers were given to specific questions."

## Duration

3 Days – To commence at 09.00 and finish at 17.00, with appropriate refreshment breaks.

Sofema Aviation Services offers a flexible approach to developing all in-company training courses which are specific to the client's needs. If you would like additional information concerning how course content may be configured to be more appropriate for your organisation please email [office@sassofia.com](mailto:office@sassofia.com)

To register for this training, please email [office@sassofia.com](mailto:office@sassofia.com) or Call +359 28210806



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