

Managing Aircraft Accident and Incident Investigation

 Classroom and In-Company Course (5 days/40 hours)

Starting with an overview of the legal responsibilities involved, this course provides you with a practical understanding of aircraft accident preparedness and the details of the investigation process. Gain the knowledge and skills to manage or participate in an accident response and support formal investigations.

Objectives

Upon completion of this course you will be able to:

- Understand the entire aircraft accident investigation process
- Know how to manage accident preparedness
- Participate in and support formal investigations.

Target audience

- Personnel involved in accident investigations from:
 - Civil aviation authorities
 - Airport authorities
 - Air navigation service providers
 - Airlines
 - Accident investigation agencies and related aviation organisations

Prerequisites

Participants should have some prior knowledge of:

- ICAO Annexes 13, 19, Doc 9859 AN/460

Recommended level

- Intermediate and Professional

Key topics

- Basic safety concepts and terminology
- State accident investigation responsibilities especially Annex 13, 19 and ICAO Doc 9859
- European regulation, national and domestic provisions and military provisions
- Preparation and readiness for an investigation into an aircraft accident
- Step by step process for managing an accident response including support functions such as managing communications and the media
- Participation in on-site investigation including safety on the accident site
- Accident and incident investigation techniques
- Flight recorders
- Airframe investigation
- How to manage investigation into the power plant both on-site and in the workshop
- Fire investigation
- How to investigate various aircraft systems

Activities

- Numerous Case Studies, videos and exercises

Certificate awarded

An **IATA Certificate** is awarded upon successful completion of the course and final examination.

You can also apply this course towards an **IATA Diploma** in Safety Management in Civil Aviation

Managing Aircraft Accident and Incident Investigation



Course schedule

Day 1

- **Introduction**
 - Why accident and incident investigation is a requirement for governments and aviation organizations
- **Basic safety concepts**
 - Lessons from the past
 - Terminology: accidents; incidents; human error; and error management
 - Causation model (after James Reason): static and dynamic hazards
- **Regulations and Organization**
 - The Chicago Convention, Articles, Annexes
 - Detailed review of ICAO Annex 13 Aircraft Accident and Incident Investigation
 - The European system - European Regulation N°996/2010 EC - 20 Oct 2010
 - National and domestic provisions
 - Military provisions

Day 3

- **Flight Recorders**
 - Regulatory crash recorders
 - Cockpit voice recorders
 - Flight data recorders
 - Non-volatile memories
- **Managing the on-site investigation**
 - Initial actions at the scene
 - Collection of evidence
 - Wreckage inventory and distribution
 - Determining final trajectory before impact
 - Determining aircraft attitude at impact

Day 5

- **Aircraft systems**
 - Parts of the aircraft system
 - Methodology for gathering data

Day 2

- **Response management**
 - How to manage people, equipment, procedures
 - The accident response process step by step
 1. Stabilize
 2. Rescue
 3. Support and protect
 4. Support ; logistics; medical; family support; judicial support; informing authorities; managing the media and communications
 5. Restore: cleaning the site; removing wreckage; restoring property; resuming operations
- **Investigation logistics and readiness**
 - Initial arrangements; preserving evidence; managing on-site hazards; planning the investigation

Day 4

- **Managing the airframe investigation**
 - Types of structural damage
 - Evidence of structural failure
 - Managing wreckage recovery and transport
 - **Managing wreckage reconstruction**
 - **Managing the powerplant investigation**
 - On-site investigation
 - Investigation in the workshop
 - **Managing the fire investigation**
 - Oxidizers, combustibles, ignition sources, fire propagation, basic evidence
-
- Examination of the various systems: mechanical; hydraulic; pneumatic; fuel; electrical; and display systems

This course can be customized for your company and delivered at the location of your choice.
Request [in-company training](#)