

INCIDENT INVESTIGATION (METHODOLOGIES & TECHNIQUES) - AVIATION-FOCUSED APPROACH

“Enhance Safety through Systematic Aviation Incident Investigation”

Schedule

Date	Venue	Fees (Face-to-Face)
20 – 22 May 2026	Dubai, UAE	USD 2495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Effective incident investigation is essential for maintaining safety, compliance, and operational efficiency in the aviation industry. Understanding the root causes of incidents and implementing corrective measures helps prevent recurrence and improves overall safety culture. This intensive 3-day training focuses on aviation-specific incident investigation methodologies and techniques, providing participants with practical skills to conduct thorough and accurate investigations.

The course covers investigation frameworks, data collection, analysis techniques, human factors, and reporting practices tailored for aviation operations. Participants will engage in case studies, hands-on exercises, and real-world scenario analysis to gain the competence needed to identify causes, recommend corrective actions, and support continuous safety improvements.

Objectives

By the end of this course, participants will be able to:

- Understand aviation incident investigation principles and methodologies
- Conduct structured investigations using standardized approaches
- Collect, analyze, and interpret incident data effectively
- Apply human factors analysis in aviation incident investigations
- Develop actionable recommendations to prevent recurrence
- Produce clear and compliant investigation reports
- Strengthen safety culture through proactive incident analysis

Why Attend

- Improve aviation safety and operational reliability
- Enhance skills in systematic incident investigation
- Reduce risk of recurring safety incidents
- Learn practical methodologies applicable to real-world aviation scenarios
- Increase professional credibility in safety and incident management

Target Audience

This program is designed for:

- Aviation safety officers and managers
- Flight operations and airline personnel
- Maintenance and technical staff involved in aviation safety
- Regulatory authorities and auditors
- Incident investigators and risk management professionals

Individual Benefits

Key competencies that will be developed include:

- Knowledge of aviation-specific incident investigation frameworks
- Skills in data collection, analysis, and human factors evaluation
- Competence in reporting and recommending corrective actions
- Improved decision-making for safety risk mitigation
- Enhanced ability to manage investigations professionally and systematically
- Strengthened expertise in aviation safety management

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved incident detection, analysis, and reporting
- Enhanced safety performance and compliance with aviation standards
- Reduced likelihood of repeated incidents and operational disruptions
- Strengthened safety culture and organizational learning
- Effective implementation of corrective and preventive actions
- Increased confidence of regulatory authorities and stakeholders

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – Aviation incident investigation frameworks and methodologies
- Case Studies – Real-world aviation incident investigations and lessons learned
- Workshops – Hands-on exercises in evidence collection, analysis, and reporting
- Peer Exchange – Group discussions on investigation challenges and solutions
- Tools – Investigation checklists, root cause analysis templates, and reporting guides

Course Outline

Detailed 3-Day Course Outline

Training Hours: 7:30 AM – 3:30 PM Daily Format: 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Introduction to Aviation Incident Investigation

Module 1: Fundamentals of Incident Investigation (07:30 – 09:30)

- Importance and objectives of incident investigation
- Regulatory and organizational frameworks
- Key principles of aviation safety management

Module 2: Investigation Planning and Evidence Collection (09:45 – 11:15)

- Planning investigations and setting objectives
- Techniques for collecting physical, digital, and witness evidence

Module 3: Data Management and Documentation (11:30 – 01:00)

- Recording, preserving, and managing investigation data
- Ensuring compliance with regulatory reporting requirements

Day 2: Analysis and Human Factors

Module 4: Incident Data Analysis Techniques (07:30 – 09:30)

- Methods for qualitative and quantitative analysis
- Identifying patterns, trends, and causal factors

Module 5: Human Factors in Aviation Incidents (09:45 – 11:15)

- Role of human error in incidents
- Human factors frameworks and analysis techniques

Module 6: Workshop: Root Cause Analysis (11:30 – 01:00)

- Hands-on exercises using aviation case studies
- Identifying root causes and contributing factors

Day 3: Reporting and Corrective Actions

Module 7: Developing Corrective and Preventive Actions (07:30 – 09:30)

- Action planning and risk mitigation strategies
- Prioritizing corrective measures

Module 8: Effective Investigation Reporting (09:45 – 11:15)

- Structuring investigation reports
- Communicating findings to stakeholders

Module 9: Case Studies, Peer Review, and Action Planning (11:30 – 01:00)

- Real-world aviation incidents review
- Group discussions and lessons learned
- Personal and organizational action planning

Certification

Participants will receive a Certificate of Completion in Aviation Incident Investigation (Methodologies & Techniques), validating their expertise in conducting systematic investigations, analyzing root causes, and implementing effective corrective actions to enhance aviation safety.

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