

AVIATION SAFETY

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THE FRENCH
ARMED FORCES
KNOW-HOW



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AVIATION SAFETY | TRAINING COURSE CATALOGUE |

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WHAT IS THE FRENCH INSTITUTE FOR AVIATION SAFETY (IFSA)

- Aviation Safety refers to the **set of measures and practices implemented in Air Operations to prevent and minimize the risk of accidents and incidents** and make **safety recommendations** whenever they occur.
- They encompass a **range of activities, procedures and regulations in a collective effort** from all stakeholders, including Air Forces, Airlines, Regulatory bodies, Investigation boards, Airports, manufacturers, Air ground and Air traffic control crews.

YOUR CAPABILITY BUILDING PARTNER

- We help you to set up/optimize your Safety Management System (SMS) and improve the Safety Culture with the most recent theoretical features from research and national and international organizations experience (International Civil and Aviation Organization, Flight Safety Foundation and International Society of Air Safety Investigators).
- **Since 1987, IFSA** provides Staff and Executives on **safety-related positions** with courses in Investigation, Prevention and Operational Risk Management, through a comprehensive Organizational and Human Factors approach.
- Our catalogue of courses and consulting services are:
 - **Flight Safety Officer** course
 - **SMS implementation** course
 - **Human and Organizational Factors** course
 - **Operational Risk Management** course
 - **Decision making** course
 - **Investigation Techniques** (Fixed-wings, Rotary-wings and UAV)

ADVANTAGES OF OUR COURSES

- **40+ High-level experts & lecturers**, active duty or retired from the French Forces, academic research and industry.
- Training syllabus with adequate theoretical and **practical case studies**,
- **Trainings in France or directly in your country** with a proven record of accomplishment of customer references (>10 000 attendees from 106 different countries).
- The courses are also appropriate to the railways, industrial, nuclear and medical fields.

DCI GROUP

DCI group is a French state-owned company transferring the French Armed Forces' know-how to international partners. Our **900+ experts from 38 nationalities** are involved along the entire chain of capability development, force preparation and employment: academic training, operational training and simulation, provision of operational capabilities, Defence & Security expertise.



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Safety Management



FLIGHT SAFETY OFFICER

Reference: SAFE-001-0322



Awarded Qualification
« FSO » & « SMS
Expert »
Certificate



Length
4 weeks



Language
English



Location
France
Paris

OBJECTIVES

- Be able to implement and administer a Safety Management System (SMS) within your organisation, whatever the sector of activity.
- Have the essential knowledge covering the various aspects of safety management.
- Know how to manage the role of Flight Safety Officer or SMS Manager within your organisation, covering the tasks : advice, surveillance, analysis and safety promotion.

AUDIENCE & PREREQUISITES

All personnel involved in the safety management in high-risk activities and implementing the associated processes : safety system organisation, event analysis, supervision of activities and safety promotion.

Multinational course, English intermediate level (B1/B2).

COURSE CONTENT

- Introduction and implementation of Safety Management Systems: see leaflet (ISMS).
- Human Factors : see leaflet (HF).
- COMMunication Techniques and event analysis : see leaflet (TCOM).
- Problems Solving and decision making techniques: see leaflet (PS).
- Safety Risk Management: see leaflet (SRM).

Duration : 108 hours.



INTRODUCTION OF SAFETY MANAGEMENT SYSTEMS

Reference: SAFE-002-0322

	Awarded Qualification « ISMS » Certificate		Length 4,5 days		Language English		Location Any country
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OBJECTIVES

- Understand the fundamental principles of Safety Management Systems (SMS), so as to be able to implement and manage an SMS within your organisation.
- Be trained on the essentials of the SMS toolbox.
- Have the basic knowledge necessary to attend the training courses : HF, TCOM, PS and SRM.

AUDIENCE & PREREQUISITES

This course is aimed at professionals involved in safety management in a variety of activities such as design, manufacturing, operations, airport management, continuing airworthiness and training. This module is also intended for operators and managers in high-risk activities outside the aviation sector. This course is the common core before to attend the 4 other components (HF, TCOM, PS and SRM). Multinational course, English intermediate level (B1/B2).

COURSE CONTENT

This module provides the essential knowledge needed to implement Safety Management Systems:

- Basic safety concepts: hazard, risk, accident mechanism, systemic causality model.
- Regulatory references: SMS fundamentals, responsibilities, ICAO, EASA, State aviation authority.
- Presentation of SMS toolbox: information flow, risk management, feedback, safety analyses, Emergency Response Plan (ERP).
- Safety culture.
- Animation of a SMS.

Duration : 27 hours.



HUMAN FACTORS

Reference: SAFE-003-0322

	Awarded Qualification « HF » Certificate		Length 4,5 days		Language English		Location France Paris
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OBJECTIVES

- Understand the basic concepts of Human Factors (HF) in the whole organisation.
- Take account of HF in event analyses.
- Be able to analyse your organisation's safety culture.

AUDIENCE & PREREQUISITES

Ideally aimed at people in charge of safety management, this course is accessible to a wide audience with a good knowledge of Safety Management System. It develops knowledge that can be applied in all areas of high-risk activities where humans play a central role in safety performance. Multinational course, English intermediate level (B1/B2).

COURSE CONTENT

- Human performance: the place of human resources in socio-technical systems, cognitive, psycho-sociological and sociological factors.
 - Managing stress and fatigue.
 - Situational awareness and decision-making.
 - Teamwork, co-activity, coordination, cooperation, communication.
 - HFACS model (Human Factors Analysis and Classification System).
 - The role of safety culture in performance improvement.
 - Biases in the sociology of organisations.
 - HF module can be usefully complemented by the Fatigue Risk Management System course.
- Duration : 27 hours.



COMMUNICATION TECHNIQUES AND EVENT ANALYSIS

Reference: SAFE-004-0322



Awarded Qualification
« TCOM »
Certificate



Length
4,5 days



Language
English



Location
France
Paris

OBJECTIVES

- Acquire skills and techniques for interviewing witnesses to an aviation event.
- Analyse an event and to identify its causes.
- Optimise teamwork in meetings as part of safety management or event analysis.

AUDIENCE & PREREQUISITES

This module is principally aimed at safety management professionals responsible for identifying hazards, carrying out event analysis and effectively gathering formal and informal safety information from individuals or groups. The techniques and methods taught are fully transferable to all areas of activity.

Multinational course; English intermediate level (B1/B2).

COURSE CONTENT

- This course uses concepts covered in the ISMS course.
- Introduction to interview witnesses with active listening.
- Event analysis and use of the HFACS (Human Factors Analysis and Classification System) model.
- Several practical exercises and role plays with feedback on methods.
- Introduction to group communication: brainstorming, establishing group dynamics, synergy, collective problem-solving and finding new ideas.
- Duration : 27 hours.



PROBLEM SOLVING AND DECISION MAKING TECHNIQUES

Reference: SAFE-005-0322

	Awarded Qualification « PS » Certificate		Length 2 days		Language English		Location France Paris
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OBJECTIVES

- Use interactive methods, to learn problem-solving and decision-making techniques adapted to the context of safety management.
- Understand the processes involved in analysing past or future problems.
- Organise and prioritise the facts identified as part of a risk assessment or event analysis.

AUDIENCE & PREREQUISITES

The Problem Solving module is aimed at decision-makers and people involved in preparing decisions within uncertain situation.

It is also aimed at those responsible for carrying out risk studies and event analyses . This module can be usefully complemented by the SRM module.

Multinational course, English intermediate level (B1/B2).

COURSE CONTENT

- Problem solving: definition and identification of the problem, facts and opinions collection, identifying causes, decision-making.
 - Reasoning methods applied to risk study and event analysis.
 - Practical exercises and case studies.
- Duration : 12 hours.



SAFETY RISK MANAGEMENT

Reference: SAFE-006-0322

 Awarded Qualification « SRM » Certificate	 Length 2,5 days	 Language English	 Location France Paris
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OBJECTIVES

- Adopt a systemic approach to operational risk management.
- Expose a risk analysis to a decision-making authority.
- Manage a change or deviation in a Safety Management System.

AUDIENCE & PREREQUISITES

This module is aimed at people who are responsible for risk management at different levels of an organisation and for advising decision-makers.

It is strongly recommended that you have completed the PS module before attending this course. English intermediate level (B1/B2).

COURSE CONTENT

- The operational safety risk management process.
 - Identification of hazards associated with activities.
 - Use of risk matrix and risk mitigation tools.
 - Change management based on operational safety risk.
 - Practical exercises with case studies.
- Duration : 15 hours.



SAFETY COMMANDERS COURSE

Reference: SAFE-007-0322



Awarded Qualification
« SCC »
Certificate



Length
4,5 days



Language
English



Location
France
Paris

OBJECTIVES

- Optimise your organisation by working on the safety levers (resources, performance and compliance).
- Reinforce the resilience of the organisation by making the system's response to the unknown more efficient.
- Improve the organisation's safety culture.
- Organise the network of aviation safety stakeholders.

AUDIENCE & PREREQUISITES

This course is aimed at all those responsible for aviation activities or safety and decision-makers within a Safety Management System.

Multinational course, English intermediate level (B1/B2).

COURSE CONTENT

- Management and Safety: the balance between anticipation and resilience.
- Organisation of a Safety Management System.
- Safety Culture and Just Culture.
- Organising Feedback.
- Preparing situational awareness for the authorities.
- Piloting organisational levers to improve safety performance.
- Practical exercises and case studies.

Duration : 27 hours.



FATIGUE RISK MANAGEMENT SYSTEM

Reference: SAFE-008-0322

	Awarded Qualification « FRMS » Certificate		Length 3 days		Language English		Location France Paris
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OBJECTIVES

- Have the theoretical basis on the physiological factors of fatigue.
- Understand the consequences of fatigue on aviation safety.
- Be familiar with the regulations and requirements inherent in fatigue management.
- Acquire the principles and tools needed to implement a fatigue management system.

AUDIENCE & PREREQUISITES

This training course is aimed at people involved in the Safety Management System of an organisation where safety performance is impacted by fatigue risk.

Multinational course, English intermediate level (B1/B2).

COURSE CONTENT

- Theoretical bases of fatigue and its management.
- The consequences and factors of fatigue, the management strategies.
- Regulatory aspects.
- Safety Management System - Fatigue risk.
- Experience sharing.

Duration : 15 hours.

Aircraft Accident Investigations



AVIATION ACCIDENT INVESTIGATOR

Reference: SAFE-011-0322

	Awarded Qualification « AAI » Certificate		Length 4 weeks		Language English		Location France Paris
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OBJECTIVES

- Acquire the in-depth knowledge necessary for the professional practice of the Aviation Safety Investigator role.
- Be able to participate as an Investigator-in-Charge, Accredited Representative (ACCREP) or Expert in an aviation safety investigation.

AUDIENCE & PREREQUISITES

This course is aimed at civilian and military personnel performing investigation functions: investigation boards, operators, designers, manufacturers, safety authorities, etc.

The Aviation Accident Investigator course complies with ICAO Annex 13 and Circular 298.

Aeronautical operational experience is recommended.

Multinational course; English intermediate level (B1/B2).

COURSE CONTENT

- Basic safety concepts and regulations.
- Preliminary measures and general organisation of an investigation.
- On-site and wreckage investigations and protection.
- Investigation of technical factors: records, examination of systems and instruments, engines, fire exam, failure factors.
- Investigation of human and organisational factors.
- Specifics of aircraft.
- Investigation and interview techniques.
- Overview of cross-cutting issues in the investigator's role.
- Recommendations and report writing.
- Visit to a safety investigation board.
- Practical exercises and case studies.

Duration: 108 hours.



AVIATION ACCIDENT INVESTIGATION TECHNIQUES (FIXED WING)

Reference: SAFE-010-0322

	Awarded Qualification « AIT » Certificate		Length 2 weeks		Language English		Location France Paris
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OBJECTIVES

- Be familiar with practical aircraft (fixed-wing) accident investigation techniques, regulations, preliminary measures, and causes identification.
- Understand the investigation process and the role of stakeholders.
- Be able to contribute to an air safety investigation.

AUDIENCE & PREREQUISITES

This course is aimed at civilian and military personnel performing investigation functions: investigation boards, operators, designers, manufacturers, safety authorities, etc.

Aeronautical operational experience is recommended.

Multinational course; English intermediate level (B1/B2).

COURSE CONTENT

- Basic safety concepts and regulations.
- Preliminary measures and general organisation of an investigation.
- On-site and wreckage investigations and protection.
- Investigation of technical factors: recorders, examination of systems and instruments, engines, fire exam, failure factors.
- Visit to a safety investigation board.
- Practical exercises and case studies.

Duration: 54 hours.



ROTARY WING ACCIDENT INVESTIGATION TECHNIQUES

Reference: SAFE-012-0322



**Awarded
Qualification**
« RWIT »
Certificate



Length
2 weeks



Language
English



Location
France
Paris

OBJECTIVES

- Be familiar with practical helicopter accident investigation techniques, regulations, preliminary measures, and causes identification.
- Understand the investigation process and the role of stakeholders.
- Be able to contribute to an air safety investigation.

AUDIENCE & PREREQUISITES

This course is aimed at civilian and military personnel performing investigation functions: investigation boards, operators, designers, manufacturers, safety authorities, etc.

Aeronautical operational experience is recommended.

Multinational course; English intermediate level (B1/B2).

COURSE CONTENT

- Basic safety concepts and regulations.
- Preliminary measures and general organisation of an investigation.
- On-site and wreckage investigations and protection.
- Investigation of technical factors: recorders, examination of systems and instruments, engines, fire exam, failure factors.
- Visit to a safety investigation board.
- Practical exercises and case studies.

Duration: 54 hours.



DRONE ACCIDENT INVESTIGATION TECHNIQUES

Reference: SAFE-013-0322

	Awarded Qualification « DIT » Certificate		Length 4,5 days		Language English		Location France Paris
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OBJECTIVES

- Receive practical and up-to-date training on drone accident investigation, regulations, preliminary measures, and causes identification.
- Understand the investigation process.

AUDIENCE & PREREQUISITES

This course is aimed at civilian and military personnel performing investigation functions: investigation boards, operators, designers, manufacturers, industry professionals, safety authorities, etc. Multinational course, English intermediate level (B1/B2).

COURSE CONTENT

- Basic safety concepts.
 - Principles of safety investigations, regulations, and role distribution.
 - Drone-specific techniques: operating principles, system configurations, and their weaknesses.
 - Human and organisational factors.
 - Practical exercises and case studies.
- Duration: 27 hours.



BLOODBORNE PATHOGENS PROTECTION

Reference: SAFE-014-0322



Awarded Qualification

The BBP certificate is delivered after completion of this course (valid 1 year)



Length
0.5 day



Language
English



Location
France
Paris

OBJECTIVES

- Become familiar with "Bloodborne Pathogens."
- Train on risk exposure, how to protect oneself, and how to behave at an aviation accident site.
- Learn how to use Personal Protective Equipment (PPE).

AUDIENCE & PREREQUISITES

This course is aimed at all investigators and personnel having access to an aviation accident site. Multinational course, English intermediate level (B1/B2).

COURSE CONTENT

- Procedures to control exposure to Bloodborne Pathogens at an aviation accident site.
- Modes of transmission of Bloodborne Pathogens.
- Exposure control plan.
- Identification of biohazards.
- Personal Protective Equipment.
- Certification: The "Bloodborne Pathogens" certification is delivered at the end of the course (valid for 1 year).
- Compliance with regulation: OSHA 29 CFR 1910.1030.

Duration: 3 hours.



SENIOR INVESTIGATOR TRAINING

Reference: SAFE-009-0322

	Awarded Qualification « SIT » Certificate		Length 4,5 days		Language English		Location France Paris
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OBJECTIVES

- Have an up to date information about the Safety Management Systems in operations.
- Understand medical issues in safety investigation.
- Be able to supervise an investigation.
- Manage multidisciplinary approach and challenges.
- Understand recommendations and report writing issues.

AUDIENCE & PREREQUISITES

This course is aimed at civil and military safety investigators in position to lead a major national or a multinational accident investigation with multidisciplinary team.

Have an investigator background.


























Multinational course, English intermediate level (B1/B2).

COURSE CONTENT

- Concepts of accident.
 - Safety Management System and Safety Risk Management: Understand how operators manage their safety risks.
 - Safety Culture and Just Culture.
 - Management of multidisciplinary team on a major investigation.
 - Contribution of the forensic doctor to the investigation.
 - Recommendations and report writing.
 - Practical cases.
- Duration : 27 hours.

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DCI group transfers the French Armed Forces' know-how in all domains and specialties.
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