HONG KONG INTERNATIONAL AVIATION ACADEMY | 香港國際航空學院

ENAC La référence aéronautique

ADVANCED MASTER IN AVIATION SAFETY MANAGEMENT

PART - TIME

A MEMBER COMPANY OF HKIA SHL,
SUBSIDIARY OF THE AIRPORT AUTHORITY HONG KONG

香港國際機場 | HONG KONG INTERNATIONAL AIRPORT

ADVANCED MASTER IN AVIATION SAFETY MANAGEMENT (PART-TIME)

Executives and managers from airports, regulatory bodies, airlines, air navigation service providers, aircraft maintenance organisations, air traffic control service providers, safety training organisations and other aviation-related organisations

This part-time Advanced Master programme is jointly offered by the Hong Kong International Aviation Academy (HKIAA) and Ecole Nationale de l'Aviation Civile (ENAC or National School of Civil Aviation of France) in Hong Kong, preparing executives to meet the real-world challenges of their roles in aviation safety management.

This 20-month Advanced Master in Aviation Safety Management aims to provide students with a thorough knowledge of the concepts, processes, methods, operational management, standards and recommended practices appliable to aviation safety; and to develop their competence for an effective implementation and enhancement of aviation safety plans either cross-domain or specific to aviation organisations.

The programme provides an opportunity for executives and managers from airports, regulatory bodies, airlines, air navigation service providers, aircraft maintenance organisations, air traffic control service providers, safety training organisations and other aviation-related organisations to enhance their knowledge and skills in the air transport system, audit techniques, safety risk management, state safety management and safety management system in different domains.

The programme is conducted at HKIAA in Hong Kong.

Date
September 2025

Duration
20 months

Certificate issued by
ENAC

Fees
EUR 25,300

Location
Hong Kong International Aviation Academy

Medium of Instruction: English

Mode of Study: Part-time

Programme Structure:

- 12 modules, with each module being taught once a month
- Upon completion of the modules, students are required to carry out a professional thesis based on a topic relating to the aviation safety management and approved by ENAC within a six-month period

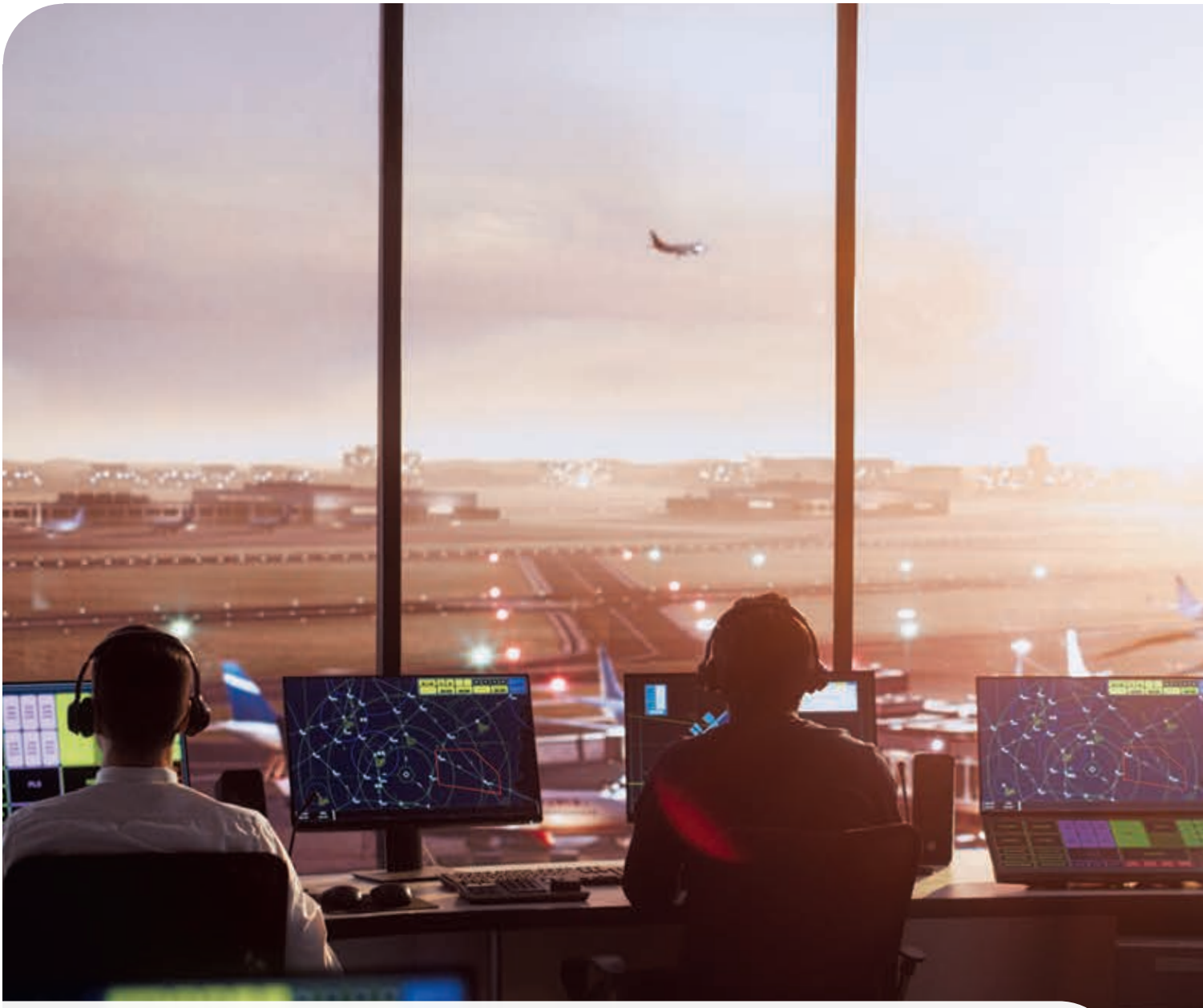
Entry Requirements:

Applicants are required to meet one of the following requirements:

- Hold a Master's degree; or
- Hold a 4-year Bachelor's degree; or
- Hold a 3-year Bachelor's degree with at least 3 years of professional experience, e.g. work experience in aviation or related industry

Applicants should also meet one of the below English language proficiency requirements:

- CECRL: B2; or
- TOEFL (Internet-based): 87; or
- TOEIC: 785; or
- IELTS: 6.5; or
- HKDSE English Language: Level 4; or
- HKCEE English Language (Syllabus B): Grade B; or
- HKALE Use of English: Grade C



Programme Intended Learning Outcomes (PILOs):

Upon successful completion of this programme, students will be able to:

I. evaluate the broad knowledge of the current situation, challenges and perspectives of aviation safety worldwide;

II. evaluate the effects of human factors and safety culture in the global safety system;

III. apply a systemic and pro-active approach to anticipate and manage safety risks, and to initiate necessary transformations;

IV. critically evaluate the interrelation between the different fields including aircraft design and production, air operations, aeronautical maintenance, air traffic navigation services, airports and training organisations towards aviation safety; and

V. implement and continuously enhance an effective Safety Management System in their own company, as well as among other aviation operators or at State level.

Remarks:

1. This Advanced Master degree is accredited by ENAC Conseil des études and Conférence des Grandes Ecoles (CGE)
2. Non-local Higher and Professional Education Course List Registration Number: 273343
3. It is a matter of discretion for individual employers to recognize any qualification to which this course may lead
4. Applicants with other equivalent qualifications, English language proficiency and relevant working experience will be considered on individual merit

Module No.	Modules
AVOM5420	Introduction to Safety Management System
AVOM5421	Implementation of Safety Management System
AVOM6420	Safety Risk Management
AVOM6431	Safety Management System in Airline (I)
AVOM6432	Safety Management System in Airline (II)
AVOM6433	Safety Management System in Airport
AVOM6434	Safety Management System in Aircraft Maintenance Organisation
AVOM6435	Safety Management System in Air Navigation Service Provider
AVOM6436	Safety Management System in Approved Training Organisation
AVOM6422	Audit Techniques
AVOM6421	State Safety Programme
AVOM6423	Air Transport System

- Lectures will be delivered in 12 three-day classes every month plus online learning.
- HKIAA reserves all rights to make revisions or alterations to the modules, schedule or other details if necessary.
- Students are allowed to take modules of the Advanced Master in Aviation Safety Management separately. For details, please visit our website.

For enrolment, please visit our website at www.hkiaAcademy.com

AVOM5420

Introduction to Safety Management System

Executives and managers from airports, regulatory bodies, airlines and other aviation-related organisations who are interested in analysing human factors and promoting a positive safety culture

This module aims to introduce students to the evolution of safety in aviation and examine how they are related to human factors, and to promoting a positive safety culture by implementing a systematic approach.

Learning Outcomes:

- Discuss the evolution of safety in aviation and the aim of safety management system for implementing safety risk management
- Analyse the application of human factors in aviation safety
- Discuss the features of safety culture and the safety cultural approaches
- Describe the importance of human factors in a systematic approach to managing safety in the aviation industry

AVOM5421

Implementation of Safety Management System

Executives and managers from airports, regulatory bodies, airlines and other aviation-related organisations who are interested in the implementation of a Safety Management System

This module aims to introduce students to the main components of Safety Management System (SMS). It also enables students to examine an effective SMS implementation plan for an aviation organisation with an appropriate methodology.

Learning Outcomes:

- Describe the main components of the Safety Management System
- Discuss the key elements of an efficient and successful Safety Management System
- Examine the implementation of the Safety Management System with an appropriate phased approach methodology
- Formulate risk management process in terms of safety risk assessment and mitigation

AVOM6420

Safety Risk Management

Executives and managers from airports, regulatory bodies, airlines and other aviation-related organisations who are interested in the safety risk management in different aviation domains

This module aims to provide students with the concepts of risk in the aspect of its governance, management, financing and formalisation which enables them to examine the methodology of risk analysis and apply the methodology to different scenarios.

Learning Outcomes:

- Describe the main concepts in risk management
- Relate the different risk analysis to different application domains
- Examine the interests and limits of different risk analysis
- Apply the methodology of Global Risk Analysis (GRA) in different accident scenarios

AVOM6431

Safety Management System in Airline (I)

Executives and managers from airports, regulatory bodies, airlines and other aviation-related organisations who are performing safety risk management in the airline system

This module aims to provide students with an overview in the main characteristics of the airline system. It also enables students to perform safety risk analysis and apply the safety risk management methodology to the airline system in the different situations.

Learning Outcomes:

- Describe the specificities of the air operator system
- Examine the importance of a comprehensive data processing system and safety investigation for an efficient Safety Management System
- Appraise various safety risk management methodologies to assess operational safety hazards and risks in the airline system
- Apply the safety risk assessment methodologies to the changes occurring in the airline system

AVOM6432

Safety Management System in Airline (II)

Executives and managers from airports, regulatory bodies, airlines and other aviation-related organisations who are responsible for developing emergency response plan and applying safety assurance measures in the airlines

This module aims to provide students with an overview of emergency response plans. It also enables students to examine safety data reporting and collection system and apply safety assurance measures in the airlines. This module also covers managing organisational changes from a safety risk management perspective to ensure ongoing safety and compliance in airlines.

Learning Outcomes:

- Illustrate the safety challenges in setting up an appropriate emergency response plan in airlines
- Examine how to measure the effectiveness of a Safety Management System with safety data and key safety performance indicators
- Develop effective change management programme in airlines from a safety risk management perspective
- Describe the needs for adequate safety training and effective Safety Management System communication programme

AVOM6433

Safety Management System in Airport

Executives and managers from airports, regulatory bodies, airlines and other aviation-related organisations who are responsible for analysing safety and policy issues in relation to aerodrome operations

This module aims to provide students with an overview in aerodrome safety management and safety risks related to aerodrome operations. It enables students to examine an aerodrome safety policy and safety performance assessment in the implementation of aerodrome safety management system.

Learning Outcomes:

- Describe the key components of an aerodrome and the aerodrome safety management system
- Analyse safety and policy issues related to aerodrome operations
- Appraise the safety performance of an aerodrome operator
- Determine the phases of implementation of the aerodrome Safety Management System and integration with the system of other safety related stakeholders
- Develop a stakeholder management plan to ensure the inter-organisational compliancy of the aerodrome Safety Management System

AVOM6434

Safety Management System in Aircraft Maintenance Organisation

Executives and managers from aircraft maintenance organisations, airports, regulatory bodies, airlines and other aviation-related organisations who are responsible for the compliance with regulations in aircraft maintenance organisations

This module aims to provide students with an overview of the basic principles of maintenance and relate it to the concepts of aviation maintenance. It also allows students to examine the safety considerations in aircraft maintenance organisation and its regulatory environment towards Safety Management System implementation.

Learning Outcomes:

- Analyse the characteristics of aviation maintenance organisations and their interaction and dependencies with its environment
- Illustrate the aircraft maintenance organisation's responsibilities in compliance with the applicable regulations in Safety Management System
- Examine how the spare and logistic activity contributes to the continuous airworthiness of the aircraft
- Measure the safety performance in aircraft maintenance organisation

AVOM6435

Safety Management System in Air Navigation Service Provider

Executives and managers from Air Navigation Service Provider (ANSP), airports, regulatory bodies, airlines and other aviation-related organisations who are responsible for the ANSP risk management

This module aims to provide students with an overview in the characteristics of an Air Navigation Service Provider (ANSP) and an analysis in its implementation of Safety Management System. It also allows students to examine how ANSP manages risks in hazardous situations by fulfilling safety requirements and reviews its safety performance in the Safety Management System.

Learning Outcomes:

- Describe the characteristics of an Air Navigation Service Provider (ANSP) and its safety regulatory requirements
- Analyse the hazards and manage the risks associated with an ANSP
- Apply a safety assessment methodology to organise an efficient data collection and data analysis system of an ANSP
- Appraise safety requirement for contingency arrangements and management of crisis situations
- Review safety performance in the Safety Management System of an ANSP

AVOM6436

Safety Management System in Approved Training Organisation

Executives and managers from aviation training organisations, airports, regulatory bodies, airlines and other aviation-related organisations who are responsible for assessing safety risks and formulating safety control strategies in aviation training organisations

This module aims to provide students with an overview of the characteristics of aviation training organisation. It also aims to provide students with knowledge in assessing safety risks and formulation of safety control strategies in aviation training organisations.

Learning Outcomes:

- Describe the characteristics, specificities and regulatory context of Approved Training Organisations (ATO)
- Examine the training methodologies and the characteristics of different types of aviation training
- Illustrate the challenges of safety in a training environment and safety culture in ATOs
- Evaluate methodologies relating to ATO hazards and risks
- Formulate risk control strategies in terms of ATO risk assessment and mitigation

AVOM6422

Audit Techniques

Executives and managers from airports, regulatory bodies, airlines and other aviation-related organisations who are interested in safety audit

This module aims to provide students with an in-depth understanding of the importance of safety audit in the aviation industry and the roles and responsibilities of audit personnel. It equips students with the necessary competencies to evaluate an audit programme.

Learning Outcomes:

- Describe the background and the objectives of safety audit in the aviation industry and its regulatory framework
- Relate quality management system to an audit programme
- Illustrate the roles, responsibilities, methodologies and techniques in aviation audits
- Appraise the integration of Safety Management System and quality management system in an audit programme in aviation

AVOM6421

State Safety Programme

Executives and managers from airports, regulatory bodies, airlines and other aviation-related organisations who are interested in the State Safety Programme (SSP) and the development of a SSP implementation plan

This module aims to provide students with an overview of State Safety Programme (SSP) and the development of a SSP implementation plan. It also aims to provide students with knowledge in using safety data and information with safety intelligence to assess risk management capability for enforcing appropriate safety policy at a state level.

Learning Outcomes:

- Describe the main concepts and the responsibilities of a state safety programme and its implementation objectives
- Examine the process of developing a state safety programme implementation plan
- Evaluate safety data collection and analysis for risk assessment
- Relate safety data and information to safety policy

AVOM6423

Air Transport System

Executives and managers from airports, regulatory bodies, airlines and other aviation-related organisations who are interested in the examination of the linkage between State Safety Program (SSP) and the Safety Management System (SMS) at State level

This module aims to give the students a broad overview of air transport system and to raise their awareness of interactivity between the different subsystems. It also allows students to examine the linkage between State Safety Program (SSP) and the Safety Management System (SMS) at State level.

Learning Outcomes:

- Describe the development, perspectives, strategies in the air transport system and its challenges
- Describe the structure of international regulations and standards and its difficulties in the implementation in different countries
- Analyse the responsibilities of stakeholders of the air transport system and their interaction to develop a safe and economically efficient air transport system
- Examine the linkage between State Safety Program (SSP) and the Safety Management System (SMS) at State level
- Evaluate the implementation of the State Safety Program (SSP) at State level

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