

NOVEMBER 25, 2026 — MAY 19, 2027

POSTGRADUATE COURSE IN  
**AIRLINE MEDICINE FOR AVIATION,  
SAFETY, PUBLIC HEALTH AND OTHER  
PROFESSIONALS**  
1ST EDITION



**ADVANCED  
EDUCATION**  
NOVA MEDICAL SCHOOL

**ADVANCED  
EDUCATION  
FOR THE  
FUTURE**

SINCE 1977

# WHY A COURSE IN AIRLINE MEDICINE??

Airline Medicine is a postgraduate course in airline health designed to equip professionals with the core knowledge and tools needed to address health-related issues in the airline industry and similar settings.

Delivered online through interactive, expert-led sessions, this in-depth course is structured to fit around your professional schedule. You'll gain first-hand insights from internationally recognised specialists in airline health and related fields.

By the end of the course, you'll walk away with:

- Solid foundational and in-depth knowledge in airline health and safety
- A practical toolkit to approach real-world health-related challenges in the airline industry
- A global professional network to support your ongoing development
- A strong level of confidence and competence to advise and act on commercial aviation health matters

Whether you're starting out in aviation, seeking to deepen your professional expertise in the airline setting, or aiming to strengthen your ability to engage with the airline industry, this course offers a structured, collegial learning experience in a truly international context.

**1ST EDITION**

**6 ECTS**

Application deadline: **10/10/2026**

## LEARNING OBJECTIVES

1. Demonstrate comprehensive knowledge and understanding of the operational, physiological, organizational, and regulatory determinants of health in commercial aviation.
2. Analyze and manage passenger and crew health issues, inflight medical events, and occupational health risks using evidence based principles appropriate to airline operational contexts.
3. Apply international aviation medical standards, practices, and regulatory frameworks to aeromedical assessment, certification processes, and airline health advisory activities.
4. Evaluate and respond to public health threats, environmental hazards, and health crisis situations affecting aviation operations, contributing to preparedness, mitigation, and recovery strategies.
5. Communicate aviation health risks effectively to professional and non professional stakeholders, integrating principles of risk perception, human factors, and emerging issues in aviation health.

## AUDIENCE

Professionals working in or interfacing with the airline, airport and related environments, including:

- Aviation, occupational and public health professionals
- Aviation professionals and managers working in safety, training and other airline business and operational areas
- Other professionals with an interest in aviation health, human factors and human performance

## COORDINATION



**Rui Pombal**



**David Powell**

## FACULTY

<b>Ana Lúcia Almeida Pereira</b>	<b>Reino Pieterse</b>
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<b>Quay Snyder</b>	

# PROGRAMME

**DISTANCE LEARNING**

**53H**

**ONLINE SYNCHRONOUS SESSIONS**

## MODULE A - OPERATIONAL AND PHYSIOLOGICAL

**NOV. 25, 2026**

**ONLINE SESSION | 18H00 - 20H00 (UTC)**

- Course introduction
- Physiology of the Airline Flight System
  - A day in the life of an airline pilot

**DEC. 02, 2026**

**ONLINE SESSION | 18H00 - 20H00 (UTC)**

- Physiology of the Airline Flight System
  - A day in the life of a flight attendant
  - Overview of ground ops

**DEC. 09, 2026**

**ONLINE SESSION | 18H00 - 20H00 (UTC)**

- Physiology of the Airline Flight System
  - Overview of fleet management
  - Data flow and protection
  - Running an airline - regulatory, operational and business environment

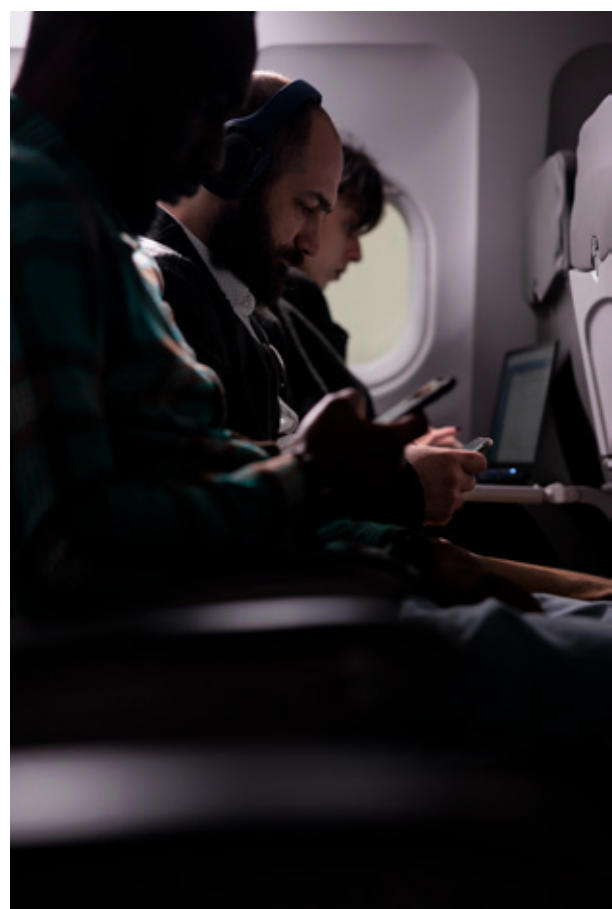
**DEC. 16, 2026**

**ONLINE SESSION | 18H00 - 21H00 (UTC)**

- Cabin environment
  - Cabin air: characteristics, ventilation, physiological implications, quality events
  - Aviation toxicology: a primer

**DEC. 17, 2026 TO DEC. 20, 2026**

- Additional Q&A and self-assessment test (asynchronous)



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## MODULE B - PASSENGER HEALTH

**JAN. 06, 2027**

**ONLINE SESSION | 18H00 - 20H00 (UTC)**

- Inflight medical events
  - Oxygen systems and breathing equipment
  - Cabin crew training in safety and medical aspects

**JAN. 13, 2027**

**ONLINE SESSION | 18H00 - 21H00 (UTC)**

- Webinar 1 | Inflight medical events
  - Epidemiology of inflight medical events
  - Inflight medical equipment and support

**JAN. 20, 2027**

**ONLINE SESSION | 18H00 - 21H00 (UTC)**

- Passenger health support and clearance
  - Passenger medical clearance - MEDA cases
  - Disabled passengers

**JAN. 27, 2027**

**ONLINE SESSION | 18H00 - 19H30 (UTC)**

- Passenger health support and clearance
  - Flight phobia

**FEB. 03, 2027**

**ONLINE SESSION | 18H00 - 20H00 (UTC)**

- Passenger health support and clearance
  - Disruptive passengers; security checks
  - Legal aspects

**FEB. 10, 2027**

**ONLINE SESSION | 18H00 - 21H00 (UTC)**

- Webinar 2 | Commercial space travel
  - Basics of space physiology
  - Medical selection of crew
  - Medical clearance of space flight participants

**FEB. 11, 2027 TO FEB. 14, 2027**

- Additional Q&A and self-assessment test (asynchronous)



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## MODULE C - OCCUPATIONAL HEALTH AND MEDICAL CERTIFICATION

**FEB. 17, 2027**

**ONLINE SESSION | 18H00 - 20H00 (UTC)**

- Occupational health for crews and other airline staff
  - Specific health issues of crew-evidence review
  - Ear and sinus barotrauma

**FEB. 24, 2027**

**ONLINE SESSION | 18H00 - 20H00 (UTC)**

- Occupational health for crews and other airline staff
  - Musculoskeletal injury in crew
  - Health of crews on layover

**MAR. 03, 2027**

**ONLINE SESSION | 18H00 - 20H00 (UTC)**

- Occupational health for crews and other airline staff
  - Specific ground staff issues

**MAR. 10, 2027**

**ONLINE SESSION | 18H00 - 20H00 (UTC)**

- Occupational health for crews and other airline staff
  - Fatigue, sleep, circadian rhythm management

**MAR. 17, 2027**

**ONLINE SESSION | 18H00 - 20H00 (UTC)**

- Occupational health for crews and other airline staff
  - Workplace drugs and alcohol testing - methods and procedures
  - Workplace drug testing interpretation

**MAR. 24, 2027**

**ONLINE SESSION | 18H00 - 20H00 (UTC)**

- Occupational health for crews and other airline staff
  - Crew mental health and peer support programmes
  - Safety of medicines in aviation

**MAR. 31, 2027**

**ONLINE SESSION | 18H00 - 20H00 (UTC)**

- Aviation medical standards
  - Regulatory bodies
  - Aeromedical certification rationale

**APR. 01, 2027 TO APR. 04, 2027**

- Additional Q&A and self-assessment test (asynchronous)



# PROGRAMME

**DISTANCE LEARNING**

**53H**

**ONLINE SYNCHRONOUS SESSIONS**

## **MODULE D - MANAGING HEALTH THREATS AND CRISES**

**APR. 07, 2027**

**ONLINE SESSION | 18H00 - 20H00 (UTC)**

- Public health events
  - Inflight disease transmission (air, fomites, foodborne)
  - Aircraft cleaning and disinfection

**APR. 14, 2027**

**ONLINE SESSION | 18H00 - 20H00 (UTC)**

- Public health events
  - Wastewater and other epidemiological surveillance systems
  - Vector transport and disinfection

**APR. 21, 2027**

**ONLINE SESSION | 18H00 - 20H00 (UTC)**

- Public health events
  - Non-infectious contingencies: radiation, toxic chemical clouds, volcanic ash - basics for a first impact checklist

**APR. 28, 2027**

**ONLINE SESSION | 18H00 - 21H00 (UTC)**

- Crisis preparedness and response
  - Setting up a contingency plan for outbreaks and pandemics
  - Airline emergency response systems
  - Medical role in the aftermath of a catastrophic event

**APR. 29, 2027 TO MAY 02, 2027**

- Additional Q&A and self-assessment test (asynchronous)



# PROGRAMME

**DISTANCE LEARNING**

**53H**

**ONLINE SYNCHRONOUS SESSIONS**

## **MODULE E - RISK AND EMERGING ISSUES IN AVIATION HEALTH**

**MAY 05, 2027**

**ONLINE SESSION | 18H00 - 21H00 (UTC)**

- Risk perception and communication
  - Risk perception modulators
  - Nocebo effect
  - Effective risk communication

**MAY 12, 2027**

**ONLINE SESSION | 18H00 - 21H00 (UTC)**

- Trends and resources
  - Current hot and emerging topics in airline medicine/health
  - Role of airline medical services/advisory
  - Data and expertise: sources and organizations
  - Discussio & debrief

**MAY 13, 2027 TO MAY 16, 2027**

- Additional Q&A and self-assessment test (asynchronous)

**MAY 19, 2027**

**ONLINE SESSION | 18H00 - 20H00 (UTC)**

- Final exam for diploma award

## **MODULE F - AIRLINE MEDICINE OUT DAY (OPTIONAL | TBC)**

- Workshops and onsite visits



## APPLICATION REQUIREMENTS

- Interest in aviation medicine and safety, and related fields
- Having completed a pre-graduate degree (in any field)

## APPLICATION DOCUMENTS

CV or Bio  
Certificate of qualifications

## NUMERUS CLAUSUS

50

## ADMISSION CRITERIA

Curriculum evaluation  
Order of application

## ATTENDANCE AND CERTIFICATE

- Criteria for awarding the course certificate:
- Attend 80% of online sessions
  - Complete all self-assessment tests

## DIPLOMA

Optional final exam for awarding Post-graduate course diploma and full ECTS

## LANGUAGE

English

## VENUE

Online and possible optional final module consisting of a study visit

## TUITION

Application fee: **100 €**  
Course fee: **2500 €**

## WEBINARS (OPEN TO GENERAL PUBLIC)

Application fee: **50 € (each one)**  
Workshop fee: **150 € (each one)**

## PROGRAM MANAGER



**FILIPA TOSCANO**

## ADDITIONAL INFORMATION

For more details, please contact the Program Manager:

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