EUROCAE

AVIATION CYBER SECURITY TRAINING

STANDARDS IN PRACTICE
2-DAY TRAINING COURSE

ED-201
ED-202A
ED-203A
ED-204
ED-205

ED-201 - Aeronautical Information System Security (AISS) Framework Guidance

ED-202A - Airworthiness Security Process Specification

ED-203A - Airworthiness Security Methods and Considerations

ED-204 - Information Security Guidance for Continuing Airworthiness

ED-205 - Process Standard for Security Certification and Declaration of ATM ANS Ground Systems

AVIATION CYBER SECURITY TRAINING

CIVIL AVIATION IS AN INCREASINGLY ATTRACTIVE TARGET FOR CYBER-ATTACKS. NEW TECHNOLOGIES SUCH AS E-ENABLED AIRCRAFT, NEW GENERATION CNS/ATM SYSTEMS AND DRONES ARE CHANGING THE RISK LANDSCAPE OF THE AVIATION SYSTEM.

At the same time, there is growing demand for guidance and leadership in cybersecurity, where EUROCAE WG-72 has brought a significant technical contribution through four EDs: ED-201, ED-202A, ED-203A and ED-204. Standards and guidance are proliferating in this space, which makes it potentially confusing for aviation stakeholders to know which is appropriate for what purpose. Guiding people through this maze is a key goal of this NEW two-day training course.

Who should attend?

Anyone working in aviation (airport, ANSP, airline, manufacturing industry) plus regulatory and industrial audiences, who needs to deal with cyber security as part of their day-to-day activities. This includes managerial, technical and operational people. Note that this training is not aimed at beginners nor at existing cyber security specialists who already have an in-depth understanding of the standards landscape.

Course content

- Cyber threats in aviation
- The current cyber security standards landscape
- ED-201 concepts and methods
- Cyber security auditing and certification
- Airworthiness standards
- Standards for securing operational technology
- Future developments

Learning objectives

The purpose of the training is to enable participants to adopt a standards-led approach to cyber security in aviation. The participant will be able to:

- Identify the principles and consequences of cyber security in the aviation environment.
- Describe how cyber security impacts different actors in aviation.
- Explain the scope and contents of ED-20X.
- Identify the interdependencies between the different standards by mapping the links between them, including ED-201 to ED-205, EN-16495, ISO27000 series, NIST standards, DOs and SAE documents.
- Select an appropriate standard, or set of standards, to adopt for specific aviation purposes.
- Research the process to follow and the information required for internal/external audits within an aviation context.
- Describe the top-level cybersecurity processes and aspects of certification in an ATM and aircraft context.

Benefits of attending

- Certificate on completion of the course.
- Participants will gain access to the tools and understanding to use available standards to manage cyber risk in an aviation context in a standards-led way (which in itself brings many additional benefits).
- ED-201 brought to life with classroom scenarios and exercises.
- Learn best practice on auditing and certification.
- Instructor is a leading authority on aviation cyber security and a certified lead auditor for ISO27001.
- Share experiences with colleagues from other aviation stakeholders/countries.
- Extensive course handouts including ED-201, ED-202, ED-203A, ED-204 and ED-205.
- Ideal learning environment at EUROCAE HQ in Saint-Denis (Paris area, France).

Course Format

The training will be led by experienced cyber security expert Matt Shreeve. It takes place over two days and will be interactive, including small group exercises to facilitate learning and enjoyment. Colour handouts will be provided, as well as a soft copy on memory stick, and complimentary copies of the ED standards.

DAY ONE	DAY TWO
1 - Introduction to aviation cyber security • What is aviation cybersecurity? • Key threats, risks and vulnerabilities • What makes aviation different • Who are the key stakeholders	**4 -** Assessment and certification • Why do we need assessment and/or certification? • ED-202A • ED-205 • ISO 27001 • How to create assurance and trust • How to approach an audit
2 - The Regulatory & Standards Landscape • EUROCAE • RTCA • CEN • ISO • NIST • etc.	**5 -** External security: supply chains and partnerships • EN 16495 • ED-201
3 - Internal security • What overall framework to use? • Control catalogues • What are the differences OT vs IT?	**6 -** Airworthiness security • ED-202A • ED-203A • ED-204

Course Instructor

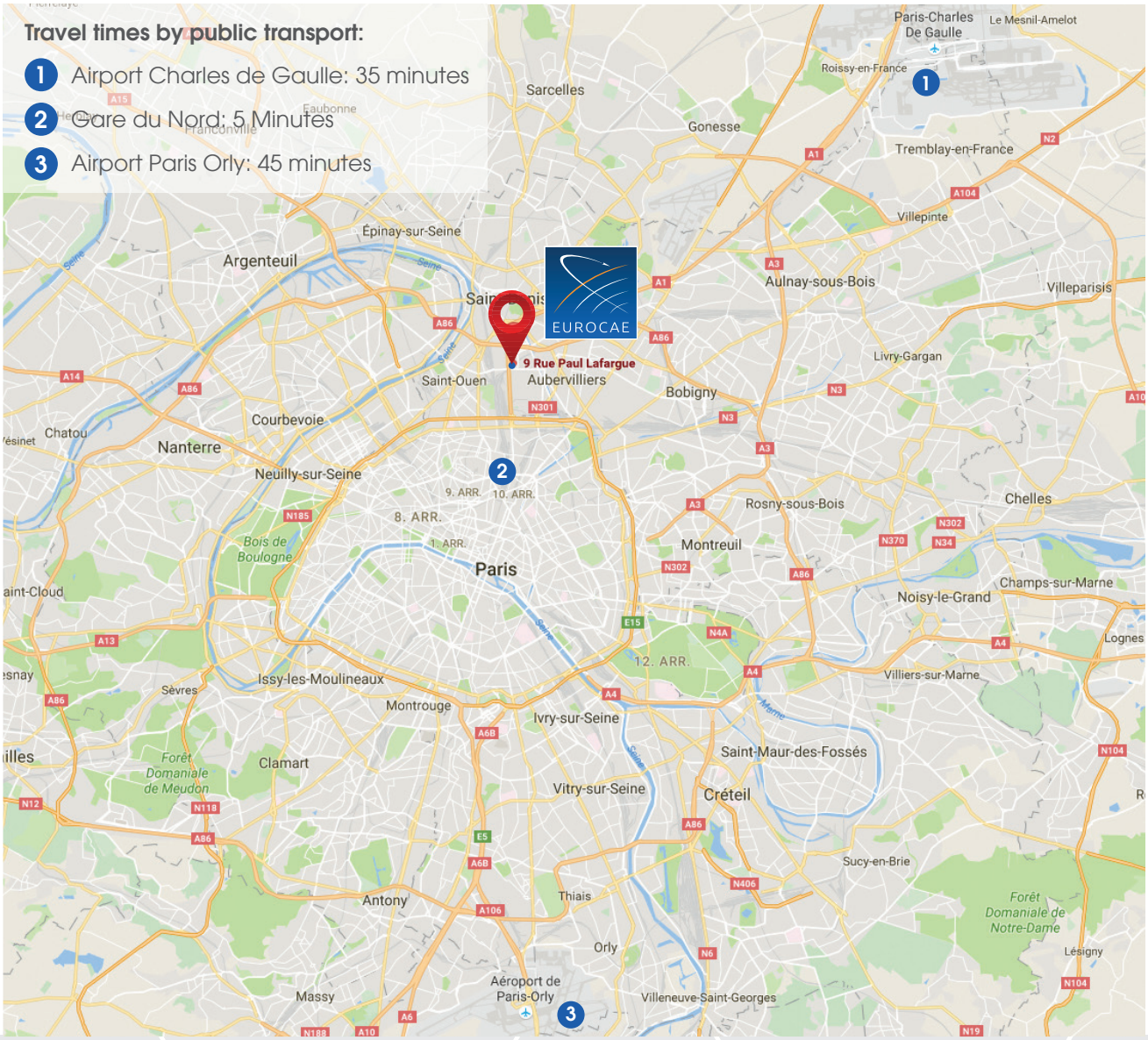
Matt Shreeve is technology, policy and cyber-security specialist at aviation consultancy Helios. His early career was spent building and assuring secure systems within UK Government.

More recently, Matt led the major SESAR cyber-security study in 2015, is the Secretary for WG-72 ED-205 Sub-group and is also a qualified ISO 27001 (Information Systems Management Systems) Lead Auditor. His recent clients include the European Commission, ANSPs, UK DfT Cyber Team, SJU, ESA, EUROCONTROL and the GSA.

Location

The training takes place at EUROCAE headquarters in Saint Denis, Paris area. The offices are conveniently located 5 minutes' train ride from Gare du Nord, and 35 minutes by car/rail from Paris Charles de Gaulle (CDG) Airport.

- Located directly at the RER B station La Plaine, Stade de France.



Course Fees

EUR 1.199 excl. VAT / EUROCAE members
EUR 1.499 excl. VAT / non-EUROCAE members

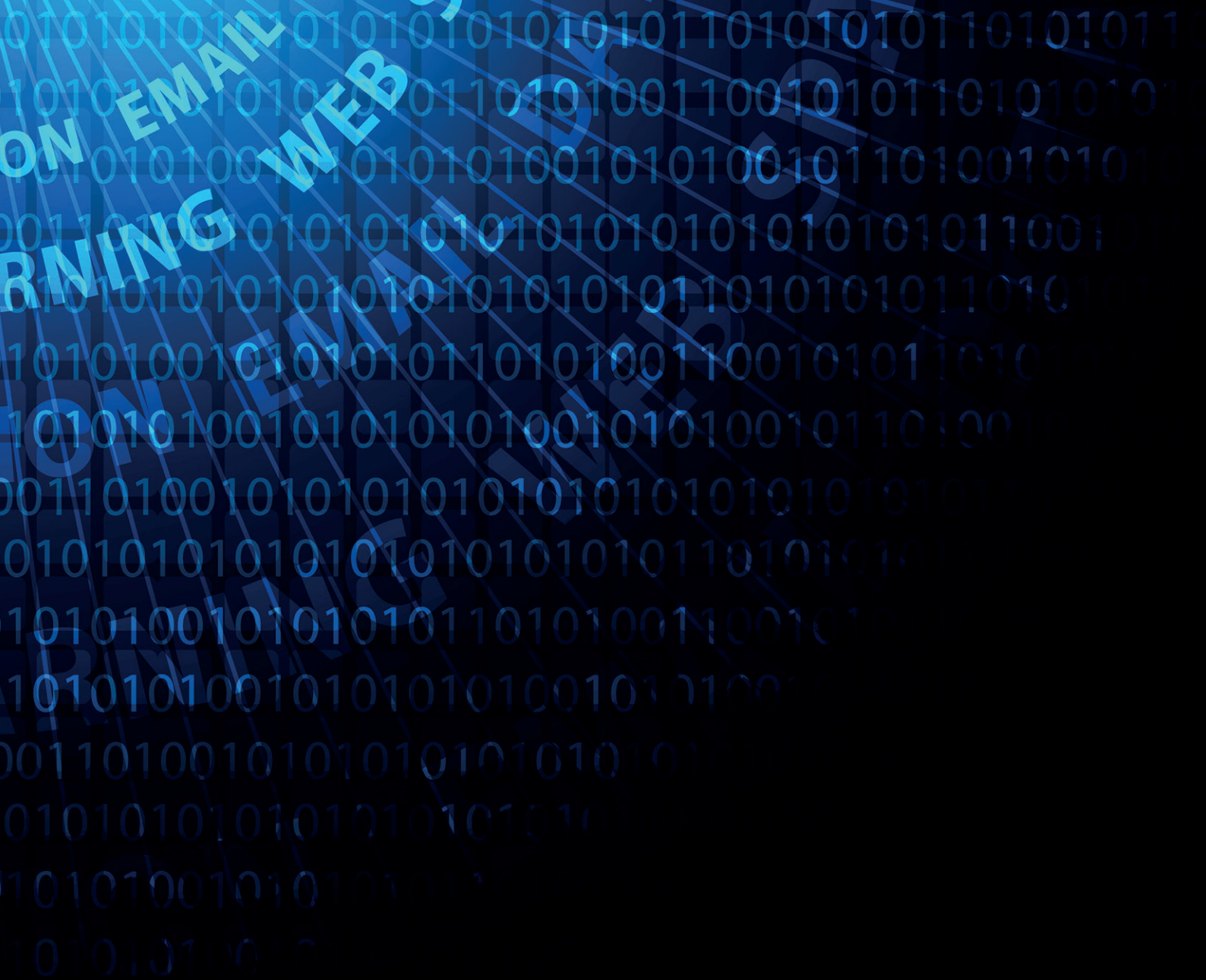
Fee includes all training, refreshments and handouts. Note that overnight accommodation is not included, however we are happy to recommend two local hotels within easy reach/ walking distance of the offices.

How to book

Places are limited to a maximum of 20 people, so you are advised to book early online here:

https://eshop.eurocae.net/trainings-and-other-events

For any additional information please contact Adrian Cioranu, Director, Training and Communications, Technical Programme Manager at Adrian.Cioranu@eurocae.net.



Terms and Conditions

Course Fees: Standard fees for the training course are € 1.199 / € 1.499, excluding VAT. VAT is charged at standard French rate. Please contact us for more details. Fees include refreshments, lunch and course documentation. All course fees must be paid by the due date stated on the invoice. All bookings are provisional and will only be confirmed once payment has been received.

EUROCAE reserves the right to reallocate places if full payment has not been received. Delegates are responsible for organisation and payment of overnight accommodation and any other expenses incurred (eg. travel to/from the venue.)

Cancellations: Cancellations received in writing up to 14 days before the start of the event will be refunded in full less an administrative charge of 10% (+ VAT where relevant). We are unable to refund cancellations received 14 days or fewer prior to the start of a course. However, in such cases and at the organisers' discretion, a place may be offered at a later course. Delegate substitutions may be made at any time, though confirmation of any changes must be received by email or post prior to the start of a course.

Non-attendance: In the event of non-attendance, full course fees will remain payable and no refunds will be made. Changes to Programme or Venue: The organisers reserve the right to make changes to or cancel a published course due in part or in full to unforeseen circumstances or insufficient numbers. In such circumstances, all reasonable efforts will be made to notify delegates of any necessary changes in good time and if necessary to reschedule or to relocate the course. Delegates will be entitled to a refund of the course fee if the course is cancelled or is changed to a date or location which is not acceptable to the delegate. The organisers will have no liability to delegates for damages of any nature arising from the cancellation of a course or from a change in its date, its location or its speakers.

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