



Time of Training 12 February - 14 May 2021 (On Fridays)

Place of Training Online, Hybrid classroom
Teaching Methods Lectures & Seminars

Individual/group study

Language of Instruction English

Instructors Nele Tootsi, Estonian Aviation Academy, Head of CNS Training,

lecturer, MSc in Computer Engineering (University of Tartu); Olaf Maennel, Tallinn University of Technology, Centre for Digital Forensics and Cyber Security, Professor, PhD (Technical University

of Munic);

Erwin Orye, Tallinn University of Technology, PhD Student (field of research: cybersecurity in aviation), MSc, Royal Military Academy in

Belgium

Base of Course Syllabus Aeronautical Engineering, (Registered in EHIS, code 194140)

Curriculum Group Transport Services
Volume of Training 78 academic hours

Price of Training 120 EUR

Target Group Cybersecurity and/or aviation specialists

Size of Training Group Up to 40 participants

Aim of Training Give a introduction to cybersecurity and the importance of

cybersecurity in aviation

Course Content Basic Principles Used in Cybersecurity

The Threat Landscape

Overview of The Attack and Defence Methods in Cybersecurity

Risk Management Demo Hacking

Wireless Transmission Media Cybersecurity Regulations Aviation Regulations

Wireless Systems - Working Principles and Cybersecurity Aspects

Wireless Systems - Ads-B

ANS Digital Systems - Working Principles and Cybersecurity Aspects

ANSP Practical Cybersecurity Implementation

Cyber Kill Chain in Cybersecurity

Aircraft Digital Systems Aircraft Cyber Certification

**ICS Systems** 

Cybersecurity in Airports - Cybersecurity Overview, Operational

Aspects

Military Aviation Drones and U-Space The Passenger Journey

Cybersecurity from Pilot's View

ATC Simulator Hack Strategic Impacts

Cybersecurity for Airlines

Learning outcomes

The participant having passed the training can:

- 1. Describe terms related to the cybersecurity;
- 2. Explain the aviation threat landscape;
- 3. Explain the possible means to execute a cyberattack on aviation and the impact such an attack may have on the complex ecosystem;
- 4. Explain cybersecurity policies and practices to ensure the security of information and operational data;
- 5. Describe possible external interventions which may interrupt ATM, airport & airline services, and digital systems of aircrafts; 6. Describe relevant existing regulations, legislations and security

standards related to cybersecurity in aviation.

Study materials Passing the Training Handed over during the training Participation in the activities – 100%

Certificate

The participants having passed the course successfully shall be awarded the respective certificate by the EAVA Flying Training Organisation

(Certificate of Course Completion)

Additional Information

Additional information from Nele Tootsi nele.tootsi@eava.ee