ONLINE SHORT COURSE
AVIATION CYBERSECURITY

OVERVIEW

This new 16-hour online course covers Aviation Cybersecurity Management, a discipline that is fast becoming one of the most important aspects of the aviation industry. Aircraft systems integrity, airport security, security of the passengers, cargo and the myriad systems that support aviation are a few areas where the reliance on computer networks is significant and the consequences of cyber breaches are great. Students will learn the needs and developments of cybersecurity, and techniques to minimize or eliminate threats. The course treats aviation cybersecurity management within the context of rapid technological changes.

LEARNING OBJECTIVES

- Recall the history, scope, gaps and vulnerabilities of cybersecurity in the aviation industry and in the National Airspace System
- Understand and explain cybersecurity applicability and problems within the aviation industry
- Synthesize the relevant cybersecurity information pertaining to aviation and propose solutions for desired outcomes
- Demonstrate an understanding of the legal, social, economic, environmental, and global ramifications of cybersecurity actions in the aviation industry
- Identify, formulate, and solve cybersecurity problems in the aviation industry by applying appropriate tools and techniques
- Demonstrate advanced knowledge of cybersecurity and the impact of technology within the aviation industry
- Understand common cybersecurity vulnerabilities and modern threat actors and evaluate their relevance to the aviation industry
- Understand trends in cyber breaches and threats and analyze their importance to aviation management
- Apply principles and best practices of information security, intelligence and risk assessment to mitigate gaps and vulnerabilities in aviation cybersecurity

DETAILS

DATES: October 26 – November 18, 2021 (4 Weeks, 8 Classes, 16 Total Hours)

TIME: Every Tuesday and Thursday at 1300-1500 Eastern Time (*all sessions will be recorded and available for replay; course materials will be available for download*)

COST: Non-Member Price: $1195 / AIAA Member Price: $995 / AIAA Student Member Price: $495

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