Advanced Aviation Security Management (AVSEC) Training Course



14 - 18 Dec 2026

Cape town

4600 € (Per Person)

Ref: #AIR9721_269772

Course Introduction / Overview:

This advanced training course provides a comprehensive and strategic examination of aviation security (AVSEC) management principles and practices. In an era of evolving threats, from terrorism to cybersecurity, a proactive and intelligence-led security posture is no longer optional but essential for the aviation industry's resilience and integrity. This program moves beyond standard operational procedures to cultivate a managerial mindset focused on risk assessment, strategic planning, and the implementation of robust Security Management Systems (SeMS). As discussed by leading aviation expert John D. Kasarda, the modern airport is a complex economic and logistical hub, demanding an equally sophisticated security architecture. This course, offered by BIG BEN Training Center, delves into the critical international frameworks, including ICAO Annex 17, and explores their practical application in real-world scenarios. Participants will learn to navigate the complexities of regulatory compliance, technology integration, human factors, and crisis response, equipping them to lead and innovate in the high-stakes environment of aviation security. The curriculum is designed to empower security leaders to build a resilient security culture and effectively manage resources to protect passengers, crew, aircraft, and infrastructure against unlawful interference.

Target Audience / This training course is suitable for:

- Airport Security Managers and Directors.
- Airline Security Managers and Station Managers.
- Civil Aviation Authority (CAA) Officials and Regulators.
- Airport and Airline Operations Managers.
- Security Supervisors and Team Leaders aspiring to management roles.
- Law Enforcement and Border Control personnel assigned to airports.
- Aviation Security Consultants and Auditors.
- Cargo and Logistics Security Managers.
- Corporate Security Managers with aviation responsibilities.

Target Sectors and Industries:

- Commercial Airlines and Air Carriers.
- International and Domestic Airports.
- Air Cargo and Freight Forwarding Companies.
- Ground Handling Service Providers.
- Aviation Fuel and Catering Service Companies.
- Governmental bodies, including Civil Aviation Authorities, Ministries of Transport, and National Security Agencies.
- Private Security Companies providing services to the aviation industry.
- Aviation Consulting and Auditing Firms.

Target Organizations Departments:

- Security and Asset Protection Departments.
- Operations and Ground Services Departments.
- Compliance and Quality Assurance Departments.
- Risk Management and Corporate Governance Departments.
- Emergency Response and Crisis Management Teams.
- Human Resources and Training Departments.
- Information Technology and Cybersecurity Departments.
- Legal and Regulatory Affairs Departments.

Course Offerings:

By the end of this course, the participants will have able to:

- Develop and implement a comprehensive Security Management System (SeMS) in line with international standards.
- Conduct advanced threat, vulnerability, and risk assessments for aviation operations.
- Master the principles of security quality control, including audits, inspections, and performance testing.
- Design and manage effective passenger, baggage, and cargo screening processes.
- Integrate modern security technologies to enhance operational efficiency and detection capabilities.
- Cultivate a positive and proactive security culture throughout an organization.
- Manage human factors in aviation security to optimize personnel performance and reliability.
- Develop and lead an effective crisis management and emergency response plan.
- Ensure compliance with national and international aviation security regulations, including ICAO Annex 17.
- Analyze and mitigate emerging threats such as cybersecurity risks and insider threats.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be highly interactive, engaging, and practical, ensuring that participants can translate theoretical knowledge into actionable skills. We believe that adult learning is most effective when it is participatory and relevant to real-world challenges. Therefore, this course moves beyond traditional lectures to incorporate a dynamic blend of learning techniques. Sessions will feature expert-led presentations, in-depth case studies of major aviation security incidents, and facilitated group discussions that encourage the sharing of diverse experiences and perspectives. A significant portion of the course is dedicated to practical exercises, including risk assessment simulations, crisis response tabletop drills, and security planning workshops. This hands-on approach allows participants to apply concepts in a controlled environment and receive immediate, constructive feedback from instructors and peers. The learning environment is collaborative, fostering teamwork and professional networking among attendees. Our goal is to create a comprehensive learning experience that equips managers not just with knowledge, but with the confidence and competence to lead effectively in the demanding field of aviation security.

Course Agenda (Course Units):

Unit One: The Global Aviation Security Framework

- The International Regulatory Environment (ICAO, IATA, ACI).
- Deep Dive into ICAO Annex 17 Standards and Recommended Practices.
- Understanding the National Civil Aviation Security Programme (NCASP).
- The Legal Aspects of Aviation Security and Enforcement.
- Roles and Responsibilities of States, Airports, and Air Carriers.
- Developing and Implementing an Airport Security Programme (ASP).
- Liaison and Coordination with National and International Agencies.

Unit Two: Advanced Threat and Risk Management

- Principles of Security Risk Management in Aviation.
- Conducting Comprehensive Threat and Vulnerability Assessments.
- Methodologies for Aviation Security Risk Analysis.
- Threat Intelligence Gathering, Analysis, and Dissemination.
- Managing the Insider Threat and Developing Mitigation Strategies.
- Understanding and Countering Terrorism Tactics in Aviation.
- Proactive Security Measures and Predictive Analysis.

Unit Three: Managing Security Operations and Technology

- Advanced Passenger and Cabin Baggage Screening Management.
- Hold Baggage Screening (HBS) Technologies and Processes.
- Effective Cargo, Mail, and Catering Security Controls.
- Access Control Management for Restricted Areas.
- Aircraft Security Procedures, Searches, and Protection.
- Integration of Security Technologies (CCTV, Biometrics, Analytics).
- Managing Aviation Cybersecurity Risks and Defenses.

Unit Four: Security Quality, Culture, and Human Factors

- Developing a Security Management System (SeMS).
- Principles of Aviation Security Quality Control and Assurance.
- Conducting Security Audits, Inspections, and Tests.
- Recruitment, Training, and Certification of Security Personnel.
- Managing Human Factors and Performance in Security Operations.
- Building and Sustaining a Positive Security Culture.
- Performance Management and Motivation for Security Staff.

Unit Five: Crisis Management and Future Security Challenges

- Developing a Comprehensive Aviation Security Contingency Plan.
- Crisis Management Principles and Emergency Response Coordination.
- Managing the Response to Acts of Unlawful Interference.
- Post-Incident Investigation, Reporting, and Analysis.
- The Future of Aviation Security Technology and Innovation.
- Addressing Emerging Threats (Drones, Cyber-Attacks, Chemical-Biological-Radiological-Nuclear).
- Strategic Leadership and Communication in Aviation Security.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

Considering the rapid evolution of drone technology and cyber threats, how can traditional aviation security frameworks adapt to proactively manage these non-physical and asymmetrical risks rather than reactively responding to them?

What unique qualities does this course offer compared to other courses?

This training course distinguishes itself by focusing on the strategic and managerial aspects of aviation security, moving beyond mere procedural compliance. While many programs concentrate on operational tasks, our curriculum is engineered for current and future leaders, emphasizing critical thinking, strategic planning, and the development of a holistic Security Management System (SeMS). A key differentiator is the deep integration of human factors and the cultivation of a robust security culture, recognizing that technology and procedures are only as effective as the people who manage and implement them. We explore the psychology behind security performance and provide tools for managers to motivate, train, and lead their teams effectively. Furthermore, the course is distinctly forward-looking, dedicating significant time to analyzing and preparing for emerging threats like cybersecurity breaches and the malicious use of unmanned aerial systems. Participants will engage with complex, real-world case studies and crisis simulations that challenge them to make high-stakes decisions, ensuring they leave not just with knowledge, but with the refined judgment and strategic foresight required to lead aviation security in an increasingly complex world.