Aviation Security Management and Regulatory Compliance Training Course

14 - 18 Dec 2026

Boston

7500 € (Per Person)

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Course Introduction / Overview:

This comprehensive course provides an in-depth exploration of Aviation Security (AVSEC) management principles and the complex web of international and national regulatory frameworks. In an industry where security is paramount, this program is designed to equip professionals with the strategic knowledge and operational skills required to lead effective security operations and ensure unwavering compliance. The curriculum delves into the core tenets of modern aviation security, moving beyond procedural checklists to foster a deep understanding of risk assessment, threat analysis, and the implementation of a proactive Security Management System (SeMS). As highlighted by scholars like John D. Kasarda in works such as "Aerotropolis: The Way We'll Live Next," the airport is a critical infrastructure hub, making its security a matter of global importance. BIG BEN Training Center has developed this course to empower participants to navigate the challenges of protecting passengers, crew, aircraft, and facilities from acts of unlawful interference. This training course integrates theoretical knowledge with practical application, preparing leaders to manage security protocols, respond to crises, and anticipate future threats in the dynamic aviation landscape.

Target Audience / This training course is suitable for:

- Airport Security Managers and Supervisors.
- Airline Security Directors and Officers.
- Civil Aviation Authority Regulators and Inspectors.
- Airport Operations Managers.
- Cargo and Freight Forwarding Security Personnel.
- Law Enforcement and Border Control Agents assigned to airports.
- Aviation Security Consultants and Auditors.
- Corporate Security Managers with aviation responsibilities.
- Ground Handling Operations Managers.

Target Sectors and Industries:

- Airlines and Air Carriers.
- Airport Authorities and Operators.
- Air Navigation Service Providers.
- Governmental bodies, including Civil Aviation Authorities and Ministries of Transport.
- Air Cargo and Logistics Companies.
- Aviation Security Service Providers.
- Ground Handling Agencies.
- Aerospace and Defense Contractors.

Target Organizations Departments:

- Security Operations.
- Regulatory Compliance and Quality Assurance.
- Corporate Security.
- Airport Operations and Management.
- Emergency Response and Crisis Management.
- Cargo and Freight Operations.
- Audit and Inspection Units.
- Human Resources and Training.

Course Offerings:

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

- Interpret and apply key international aviation security regulations, including ICAO Annex 17 standards.
- Develop, implement, and manage a comprehensive Security Management System (SeMS).
- Conduct thorough security risk assessments and vulnerability analyses for aviation operations.
- Master the principles of security screening for passengers, baggage, cargo, and mail.
- Design and oversee effective access control and perimeter security measures for airports.
- Manage and respond to security incidents, threats, and breaches effectively.
- Lead aviation security audits and inspections to ensure continuous regulatory compliance.
- Foster a positive security culture throughout an aviation organization.
- Analyze emerging threats, including cybersecurity and insider risks, and develop mitigation strategies.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be immersive, interactive, and highly practical, ensuring that participants can translate theoretical knowledge into real-world competencies. This course moves beyond traditional lectures to create a dynamic learning environment. We utilize a blend of expert-led presentations, in-depth case studies of actual aviation security incidents, and collaborative group workshops where participants can tackle complex security scenarios. Interactive sessions encourage open dialogue and the sharing of diverse experiences, enriching the learning process for all. Participants will engage in practical exercises such as developing components of a security program, conducting a mock risk assessment, and drafting an incident response plan. Continuous feedback is provided by the instructor to guide learning and reinforce key concepts. This hands-on, participant-centered approach ensures that attendees leave not just with information, but with the confidence and skills to effectively manage aviation security and compliance within their own organizations.

Course Agenda (Course Units):

Unit One: Foundations of International Aviation Security

- The historical context of aviation security and acts of unlawful interference.
- The international legal framework: The Chicago, Tokyo, Hague, and Montreal Conventions.
- In-depth analysis of ICAO Annex 17 standards and security manuals.
- The roles and responsibilities of ICAO, IATA, and national Civil Aviation Authorities.
- Understanding the National Civil Aviation Security Programme (NCASP).
- The fundamental principles of airport and airline security measures.
- Defining and promoting a robust security culture within an organization.

Unit Two: Security Management Systems (SeMS) and Risk Assessment

- Introduction to the principles and components of a Security Management System (SeMS).
- Developing a comprehensive Aviation Security Programme (ASP).
- Methodologies for conducting security threat and vulnerability assessments.
- The principles of risk management and application of a risk matrix.
- Implementing security quality control measures and performance monitoring.
- Documentation and record-keeping for SeMS and regulatory compliance.
- Integrating SeMS with the broader Safety Management System (SMS).

Unit Three: Operational Security Measures and Procedures

- Advanced principles of passenger and cabin baggage screening.
- Techniques and technologies for hold baggage and cargo screening.
- Implementing robust access control systems for secure and restricted areas.
- Strategies for effective airport perimeter security and surveillance.
- Aircraft security procedures, including searches, checks, and protection.
- Managing catering, mail, and other airport supplies security.
- Specialized security procedures for general aviation and VIP flights.

Unit Four: Regulatory Compliance, Audits, and Quality Control

- The role of the appropriate authority in oversight and enforcement.
- Preparing for and managing national and international security audits.
- Techniques for conducting internal security inspections and performance tests.
- Developing and implementing corrective action plans for audit findings.
- Managing security training programs and staff competency assessments.
- Certification and background check requirements for aviation personnel.
- Navigating the complexities of multi-jurisdictional regulatory environments.

Unit Five: Crisis Management and Emerging Aviation Security Threats

- Developing and testing an airport emergency and crisis management plan.
- Procedures for responding to bomb threats, hijackings, and other security incidents.
- Media management and communication during a security crisis.
- Understanding and mitigating the risk of insider threats.
- Addressing the challenges of cybersecurity in aviation systems.
- Countering the threat of Unmanned Aerial Systems (Drones) to aviation.
- Future trends and technological advancements 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:

In an era of constantly evolving threats, how can aviation security leaders balance stringent regulatory compliance with the need for operational efficiency and a positive passenger experience, without one compromising the other?

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

This course distinguishes itself by adopting a holistic, strategic management perspective on aviation security, rather than focusing solely on procedural compliance. While many programs teach the "what" of security regulations, this training emphasizes the "how" and "why," empowering participants to think critically as security leaders. It uniquely integrates the principles of a Security Management System (SeMS) throughout the curriculum, promoting a proactive, risk-based approach over a reactive, incident-driven one. The content moves beyond standard operational measures to address complex, contemporary challenges such as insider threat mitigation, cybersecurity vulnerabilities, and the integration of security with overall business objectives. By blending rigorous academic frameworks with practical, real-world case studies and interactive problem-solving sessions, the course ensures that participants develop not just technical knowledge but also the strategic foresight and leadership skills necessary to build resilient, effective, and compliant security programs that can adapt to the unpredictable threats of the future.