Advanced Airport Security Operations and Threat Assessment Training Course



19 - 23 Oct 2026

Barcelona

5900 € (Per Person)

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Course Introduction / Overview:

In an era of evolving global threats, the security of our airports stands as a paramount concern for national and international stability. This training course provides a comprehensive and in-depth exploration of modern airport security operations and proactive threat assessment methodologies. Moving beyond standard procedural training, this program delves into the complex interplay of technology, human factors, and intelligence in creating a resilient security posture. As noted by aviation infrastructure expert Dr. John D. Kasarda in his works like "Aerotropolis: The Way We'll Live Next," airports are no longer mere transit points but are critical economic and logistical hubs requiring sophisticated, integrated security systems. This course, offered by BIG BEN Training Center, is meticulously designed to equip security professionals with the strategic thinking and advanced skills needed to identify vulnerabilities, analyze threats, and implement effective countermeasures. Participants will gain a holistic understanding of the entire airport security ecosystem, from perimeter defense and access control to cargo screening and crisis management, ensuring they are prepared to protect these vital assets against a wide spectrum of risks.

Target Audience / This training course is suitable for:

- Airport Security Managers and Directors.
- Aviation Security Supervisors and Team Leaders.
- Airline Security Personnel and Ground Staff.
- Airport Operations and Duty Managers.
- Law Enforcement and Border Control Officers assigned to airports.
- Civil Aviation Authority Regulators and Inspectors.
- Corporate Security Professionals in the aviation industry.
- Intelligence Analysts focused on transportation security.
- Emergency Response and Crisis Management Planners.

Target Sectors and Industries:

- Commercial Aviation and Airline Operators.
- Airport Authorities and Management Companies.
- Air Cargo, Freight, and Logistics Providers.
- Private Security Firms specializing in aviation.
- Governmental bodies, including Civil Aviation Authorities and Ministries of Transport.
- National Security, Intelligence, and Law Enforcement Agencies.
- Aviation and Security Technology Manufacturing Companies.

Target Organizations Departments:

- Security and Asset Protection Departments.
- Operations and Ground Handling Departments.
- Corporate Safety and Compliance Departments.
- Risk Management and Internal Audit Teams.
- Emergency Response and Crisis Management Units.
- Human Resources and Personnel Vetting Departments.
- Information Technology Departments focused on cybersecurity.

Course Offerings:

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

- Analyze and apply international and national aviation security regulations, including ICAO Annex 17 standards.
- Develop and implement robust security protocols for landside, airside, and terminal operations.
- Conduct comprehensive threat assessments and risk analyses specific to the airport environment.
- Master advanced passenger and baggage screening techniques utilizing modern technology and behavioral analysis.
- Design and manage effective access control systems for restricted and sterile areas.
- Identify and mitigate insider threats through procedural controls and security culture development.
- Lead and coordinate multi-agency responses during security incidents and emergency situations.
- Evaluate and integrate new security technologies to enhance operational effectiveness.

Course Methodology:

The training methodology at BIG BEN Training Center is designed to be immersive, interactive, and directly applicable to the professional challenges faced by participants. This course moves beyond traditional lecture-based learning by employing a dynamic, blended approach that combines expert-led instruction with practical application. Core concepts and regulatory frameworks are presented through engaging sessions, followed by in-depth analyses of real-world case studies that examine both security failures and successful interventions from airports around the globe. A significant portion of the training is dedicated to collaborative group exercises and simulation scenarios, where participants will work in teams to develop security plans, respond to evolving threat intelligence, and manage simulated crises. This hands-on approach fosters critical thinking, problem-solving, and decision-making skills in a controlled environment. Continuous feedback from instructors and peers is a key component, ensuring a rich learning experience that translates directly into enhanced on-the-job performance and strategic security leadership.

Course Agenda (Course Units):

Unit One: Foundations of International Aviation Security

- The Global Aviation Security Landscape.
- International Regulatory Frameworks: ICAO, IATA, and Annex 17.
- National Civil Aviation Security Programmes (NCASP).
- The Roles and Responsibilities of Airports, Airlines, and Authorities.
- Principles of Airport Security Design and Planning.
- Understanding Landside, Airside, and Sterile Areas.
- Developing a Proactive Security Culture within the Airport Community.

Unit Two: Advanced Threat and Vulnerability Assessment

- Principles of Threat Identification and Analysis.
- Conducting Comprehensive Airport Security Risk Assessments.
- Methodologies for Vulnerability Analysis of Airport Infrastructure.
- Understanding Threat Vectors: Terrorism, Cyber-attacks, and Insider Threats.
- Intelligence Gathering and Information Sharing Protocols.
- Behavioral Pattern Recognition and Proactive Threat Detection.
- Case Studies in Airport Security Breaches and Lessons Learned.

Unit Three: Security Screening and Access Control Systems

- Advanced Passenger Screening Checkpoint Management.
- Technologies in Baggage Screening: X-ray, CT, and ETD.
- Non-Intrusive Inspection of Cargo, Mail, and Catering Supplies.
- Designing and Implementing Robust Access Control Systems.
- Biometrics, Credentials, and Identity Management.
- Strategies for Mitigating Insider Threats through Access Control.
- Perimeter Security: Fencing, Surveillance, and Intrusion Detection.

Unit Four: Specialized Airport Security Operations

- Airside Security Protocols and Aircraft Protection.
- Managing Security at General Aviation and VIP Terminals.
- Developing and Implementing an Airport Cybersecurity Strategy.
- Security Measures for Air Cargo and Supply Chain Integrity.
- Law Enforcement Integration and Joint Operations.
- Managing Public Order and Disruptive Passengers.
- Conducting Security Audits, Inspections, and Quality Control Tests.

Unit Five: Crisis Management and Future Security Trends

- Developing and Testing Airport Emergency Response Plans.
- Command, Control, and Communication during a Security Crisis.
- Post-Incident Management and Business Continuity.
- The Role of Artificial Intelligence and Machine Learning in Security.
- Countering Unmanned Aerial Systems (Drones).
- The Evolution of Threats and Future Security Challenges.
- Leading Security Teams and Fostering Resilience.

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:

As technology like AI and biometrics becomes more integrated into airport security, how can security leaders balance enhanced efficiency and threat detection with the fundamental rights to privacy and data protection for passengers and staff?

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

This course distinguishes itself by adopting a strategic, holistic perspective on airport security that transcends mere procedural compliance. While many programs focus on the "what" and "how" of security tasks, this training emphasizes the "why," cultivating a deep understanding of the threat landscape and fostering a proactive, intelligence-led security mindset. Its unique quality lies in the seamless integration of three critical domains: regulatory mastery, operational excellence, and strategic leadership. We move beyond checklists to explore the complex human factors that influence security outcomes, dedicating significant time to developing a robust security culture and mitigating the elusive insider threat. The curriculum is built on a foundation of real-world case studies and forward-looking analysis, preparing participants not just for today's challenges but for the future evolution of aviation threats. Rather than simply teaching how to operate technology, we teach how to critically evaluate and strategically integrate new systems into a comprehensive security architecture. This approach ensures graduates leave not as technicians, but as adaptable security leaders capable of making critical decisions under pressure.