



COMPREHENSIVE RISK-BASED SECURITY FOR AIRPORTS TRAINING COURSE

**14 - 18 DEC 2026
KUALA LUMPUR
5200 € (PER PERSON)
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COURSE INTRODUCTION / OVERVIEW:

The global aviation landscape is in a state of constant evolution, with emerging threats demanding a shift from traditional, static security measures to a more dynamic, intelligence-led, and risk-based approach. This course provides a comprehensive framework for understanding and implementing Risk-Based Security (RBS) principles within the complex airport environment. Moving beyond simple compliance, the curriculum delves into the methodologies of proactive threat identification, vulnerability assessment, and strategic risk mitigation, aligning with international standards such as ICAO Annex 17. As discussed by experts like Andrew R. Thomas in works such as "Aviation Security: A Nuts-and-Bolts Approach," the future of airport protection lies in a holistic Security Management System (SeMS) that is both resilient and adaptable. BIG BEN Training Center has designed this program to equip security professionals with the critical thinking and practical skills needed to develop and manage security programs that effectively allocate resources to the highest-risk areas. Participants will explore the intricate balance between robust security protocols, operational efficiency, and passenger facilitation, mastering the tools to safeguard airport infrastructure, passengers, and staff against a wide spectrum of modern security challenges, from terrorism to sophisticated cyber-attacks.

TARGET AUDIENCE / THIS TRAINING COURSE IS SUITABLE FOR:

- Airport Security Managers and Directors.
- Aviation Security (AVSEC) Officers and Supervisors.
- Airline Security Coordinators and Managers.
- Civil Aviation Authority Regulators and Inspectors.
- Airport Operations Managers.
- Law Enforcement and Border Control Officials assigned to airports.
- Security Consultants specializing in aviation.
- Risk and Compliance Managers in the aviation sector.
- Emergency Response and Crisis Management Planners.
- Corporate Security Managers for airport-based businesses.

TARGET SECTORS AND INDUSTRIES:

- Aviation and Aerospace.
- Air Transportation and Logistics.
- National and International Airports.
- Commercial Airlines and Cargo Carriers.

- Governmental bodies, including Civil Aviation Authorities and Ministries of Transport.
- Private Security Service Providers.
- Travel and Tourism.
- Critical National Infrastructure Protection.



TARGET ORGANIZATIONS DEPARTMENTS:

- Security and Aviation Security (AVSEC) Departments.
- Operations and Terminal Management.
- Risk Management and Compliance.
- Safety and Quality Assurance.
- Emergency Planning and Crisis Management.
- Corporate Security.
- Information Technology and Cybersecurity.
- Human Resources (for insider threat programs).
- Facilities and Infrastructure Management.

COURSE OFFERINGS:

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

- Develop and implement a comprehensive risk-based airport security program.
- Conduct systematic threat, vulnerability, and risk assessments (TVRA).
- Align security operations with ICAO Annex 17 and national regulatory requirements.
- Evaluate and integrate advanced security technologies for screening and surveillance.
- Design effective access control and perimeter security strategies.
- Create and manage an insider threat mitigation program.
- Lead crisis management and emergency response efforts during security incidents.
- Foster a strong and proactive security culture throughout the airport organization.
- Prepare for and successfully navigate national and international security audits.
- Analyze and counter emerging threats, including cybersecurity and drone risks.
- Apply human factors principles to enhance security personnel performance.

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 theoretical lectures to foster a dynamic learning environment where knowledge is built through active participation and real-world problem-solving. A cornerstone of our approach is the extensive use of case studies based on actual airport security incidents, allowing participants to analyze successes and failures in a controlled setting. Interactive group workshops will challenge teams to develop risk matrices, design security screening checkpoints, and draft emergency response communications. Role-playing simulations will place participants in high-pressure decision-making scenarios, honing their crisis management

and communication skills. The program incorporates expert-led discussions, peer-to-peer knowledge sharing, and practical exercises that bridge the gap between theory and practice. Continuous feedback from the instructor ensures that learning is reinforced and that participants can confidently apply the acquired risk-based security principles directly to their operational environments upon completion of the course.



COURSE AGENDA (COURSE UNITS)

UNIT ONE: FOUNDATIONS OF RISK-BASED AVIATION SECURITY

- Introduction to Aviation Security (AVSEC) evolution.
- Core principles of Risk-Based Security (RBS).
- Understanding the international regulatory framework (ICAO Annex 17).
- National Civil Aviation Security Programme (NCASP).
- The concept of Security Management Systems (SeMS).
- Defining risk appetite and tolerance in an airport context.
- Key differences between reactive and proactive security postures.

UNIT TWO: THREAT, VULNERABILITY, AND RISK ASSESSMENT

- Methodologies for Threat and Vulnerability Assessment (TVA).
- Identifying threat actors and their motivations.
- Analyzing airport vulnerabilities across physical and cyber domains.
- Conducting a comprehensive security risk assessment.
- Developing and using a security risk matrix.
- Prioritizing risks for effective resource allocation.
- Intelligence gathering and analysis for predictive security.

UNIT THREE: STRATEGIC SECURITY OPERATIONS AND TECHNOLOGY

- Designing landside and airside security zones.
- Advanced passenger and cabin baggage screening techniques.
- Hold baggage and cargo security protocols.
- Principles of effective access control and perimeter protection.
- Evaluating and deploying modern security technologies (biometrics, AI, CT scanners).
- Behavioral detection and analysis techniques.
- Integrating physical security with cybersecurity measures.

UNIT FOUR: HUMAN FACTORS AND CRISIS MANAGEMENT

- Developing a positive and resilient security culture.
- Recruitment, training, and performance management of security staff.
- Understanding and mitigating the insider threat.
- Airport emergency response planning and coordination.
- Crisis communication strategies for security incidents.

- Managing the media and public perception during a crisis.
- Post-incident analysis and continuous improvement.



UNIT FIVE: COMPLIANCE, AUDITS, AND FUTURE SECURITY TRENDS

- Quality control and assurance in airport security.
- Preparing for and managing regulatory security audits.
- Best practices for documentation and record-keeping.
- Addressing emerging threats: drones, cyber-physical attacks, and chemical threats.
- The future of airport security: seamless travel and data-driven screening.
- Public-private partnerships in enhancing airport security.
- Course review, final assessment, and action planning.

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 evolves, how can airports balance the implementation of invasive security measures with the imperative to maintain passenger privacy and a positive travel experience?

WHAT UNIQUE QUALITIES DOES THIS COURSE OFFER COMPARED TO OTHER COURSES?

This course distinguishes itself by moving beyond a simple compliance checklist, instead fostering a strategic, risk-based mindset essential for modern aviation security leaders. While other programs may focus heavily on regulatory memorization, our curriculum emphasizes the "why" behind the "what," empowering participants to make informed, data-driven decisions tailored to their specific airport's risk profile. A key differentiator is the deep integration of human factors and security culture, recognizing that technology alone is insufficient without a vigilant, well-trained, and motivated workforce. We uniquely address the convergence of physical and cybersecurity threats, preparing professionals for the complex, interconnected challenges of today's digital airport environment. The course content is heavily reliant on contemporary case studies and forward-looking analysis of emerging threats like drone incursions and cyber-physical attacks, ensuring the skills learned are not just current but future-proof. Participants will leave not just with knowledge of regulations, but with the critical thinking ability to build a resilient, adaptable, and intelligent security ecosystem that protects assets while facilitating efficient airport operations.