Aviation Security Technology Management Training Course

Professional Development Training Course Outline

Category	Aviation and Airport Management	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Aviation Security Technology Management Training Course is designed to enhance expertise in advanced aviation security systems, emerging security technologies, risk management frameworks, and intelligent airport protection strategies. With the rapid evolution of aviation threats, airports and aviation organizations require security professionals who can integrate artificial intelligence (AI), biometric technologies, cybersecurity solutions, surveillance systems, and data-driven security management approaches to ensure global aviation safety and resilience.

This course focuses on modern aviation security technology management practices aligned with international standards, including threat detection, access control systems, passenger screening technologies, security operations centers, and technology-enabled incident response. Participants will gain practical knowledge of managing aviation security innovations, optimizing security infrastructure, and implementing effective technology governance strategies using global best practices from leading airports and aviation authorities.

Programme Curriculum

Aviation Security Technology Management Training Course

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Course Objectives

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

1. Understand advanced aviation security technology frameworks and global security management standards.
2. Develop effective aviation security technology strategies using risk-based approaches.
3. Apply artificial intelligence and machine learning solutions in aviation security operations.
4. Evaluate modern passenger and baggage screening technologies.
5. Implement cybersecurity strategies for aviation technology infrastructure.
6. Manage integrated airport security systems and operational technologies.
7. Analyze security threats using data analytics and intelligence-driven approaches.
8. Improve security technology procurement, implementation, and lifecycle management.
9. Enhance airport resilience through innovative security technology solutions.
10. Apply international aviation security regulations and compliance frameworks.
11. Optimize security operations through automation and digital transformation.
12. Develop effective technology governance and security performance monitoring systems.
13. Lead aviation security technology innovation and continuous improvement initiatives.

Organizational Benefits

- Improved aviation security performance through advanced technology adoption.
- Enhanced ability to identify and mitigate emerging security threats.
- Increased compliance with international aviation security requirements.
- Better management of airport security technology investments.
- Improved operational efficiency through digital security solutions.
- Strengthened cybersecurity protection for aviation infrastructure.
- Enhanced passenger safety and confidence.
- Improved decision-making through security intelligence and analytics.
- Reduced security vulnerabilities and operational risks.
- Development of skilled aviation security technology leaders.

Target Audiences

1. Airport security managers and supervisors.
2. Aviation security officers and professionals.
3. Airport operations managers.
4. Airline security managers.
5. Aviation technology specialists.

6. Government aviation security regulators.
7. Airport information technology professionals.
8. Aviation risk management professionals.

Course Duration: 5 days

Course Modules

Module 1: Fundamentals of Aviation Security Technology Management

- Overview of aviation security technology evolution and emerging global trends.
- Understanding international aviation security frameworks and compliance requirements.
- Role of technology in modern airport security management.
- Aviation security risk assessment and threat identification methods.
- Global case study: Security technology transformation at Singapore Changi Airport.
- Practical exercise on aviation security technology planning.

Module 2: Airport Surveillance and Monitoring Technologies

- Advanced CCTV systems, intelligent video analytics, and monitoring solutions.
- Integration of surveillance technologies with airport security operations.
- Artificial intelligence applications in threat detection and monitoring.
- Managing security operations centers and real-time intelligence platforms.
- Global case study: Heathrow Airport integrated surveillance management systems.
- Practical assessment of airport surveillance technology effectiveness.

Module 3: Biometric Security and Identity Management Systems

- Principles of biometric authentication in aviation environments.
- Facial recognition, fingerprint, and digital identity technologies.
- Managing passenger processing through biometric solutions.
- Privacy, data protection, and ethical considerations in biometric security.
- Global case study: Dubai International Airport biometric passenger journey.
- Designing secure biometric implementation strategies.

Module 4: Passenger and Baggage Screening Technologies

- Advanced passenger screening equipment and security procedures.
- Explosive detection systems and automated screening technologies.
- Computed tomography (CT) scanning applications for baggage security.
- Managing screening technology performance and maintenance.
- Global case study: European airport next-generation screening programs.
- Evaluating screening technology improvement opportunities.

Module 5: Aviation Cybersecurity and Digital Protection

- Cybersecurity threats affecting aviation technology infrastructure.
- Protecting airport networks, communication systems, and databases.
- Cyber risk assessment and incident response strategies.
- Implementing cybersecurity governance frameworks.
- Global case study: Cyber resilience programs at major international airports.
- Developing aviation cybersecurity improvement plans.

Module 6: Emerging Technologies in Aviation Security

- Applications of artificial intelligence and automation in security operations.
- Internet of Things (IoT) technologies for smart airport security.
- Robotics and autonomous security solutions.
- Predictive analytics for aviation threat management.
- Global case study: Smart security technology adoption at Hong Kong International Airport.
- Future trends shaping aviation security technology.

Module 7: Security Technology Management and Governance

- Security technology planning, budgeting, and resource management.
- Technology procurement and vendor management strategies.
- Security system integration and lifecycle management.
- Performance measurement and technology optimization.
- Global case study: Amsterdam Schiphol Airport security innovation strategy.
- Developing aviation security technology governance frameworks.

Module 8: Future Aviation Security Leadership and Innovation

- Leading digital transformation in aviation security environments.
- Developing innovation strategies for future security challenges.
- Managing organizational change during technology implementation.
- Building security technology leadership capabilities.
- Global case study: United States airport security modernization initiatives.
- Creating an aviation security technology action plan.

Training Methodology

- Instructor-led interactive presentations focusing on aviation security technology concepts.
- Real-world global aviation security case studies and operational examples.
- Group discussions and collaborative problem-solving exercises.

- Practical demonstrations of modern aviation security technologies.
- Scenario-based simulations involving security threats and incidents.
- Workshops on technology evaluation and implementation planning.
- Expert discussions on emerging aviation security trends.
- Participant presentations and knowledge-sharing sessions.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000

Start Date	End Date	Location	Price
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

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