Runway Safety 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

Runway Safety Management Training Course is designed to strengthen airport operational excellence, runway risk management, and global aviation safety standards. The course focuses on developing advanced competencies in runway safety management systems (RSMS), hazard identification, risk assessment, incident prevention, and compliance with International Civil Aviation Organization (ICAO) Annex 14 requirements. Participants will gain practical knowledge of runway safety principles, safety performance monitoring, wildlife hazard management, runway incursions prevention, and emergency response strategies to enhance airport safety performance.

This professional training course equips aviation professionals with the latest runway safety technologies, operational control strategies, and proactive safety management approaches. Through global case studies, interactive discussions, and practical exercises, participants will learn how leading airports worldwide implement effective runway safety programs. The course supports organizations in achieving operational resilience, reducing runway-related incidents, improving regulatory compliance, and building a strong safety culture across airport operations.

Programme Curriculum

Runway Safety Management Training Course

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Course Objectives

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

1. Understand advanced runway safety management principles and international aviation safety frameworks.
2. Develop effective runway safety management systems aligned with ICAO standards and recommended practices.
3. Apply risk assessment techniques for identifying and controlling runway hazards.
4. Implement runway incursion and excursion prevention strategies.
5. Improve airport safety culture through proactive safety leadership and communication.
6. Analyze runway safety incidents using investigation and root cause analysis techniques.
7. Apply modern safety performance indicators and monitoring systems.
8. Manage runway foreign object debris (FOD) prevention programs effectively.
9. Enhance wildlife hazard management and mitigation strategies.
10. Strengthen emergency preparedness and runway incident response capabilities.
11. Utilize safety data analytics for continuous runway safety improvement.
12. Promote collaboration among airport stakeholders through runway safety teams.
13. Implement global best practices for sustainable airport safety management.

Organizational Benefits

1. Improved airport operational safety and reduced runway-related incidents.
2. Enhanced compliance with ICAO, national aviation authorities, and industry standards.
3. Stronger safety culture among airport employees and stakeholders.
4. Improved hazard identification and risk mitigation capabilities.
5. Better emergency preparedness and crisis response coordination.
6. Increased operational efficiency through effective safety management processes.
7. Reduced financial losses associated with runway incidents and disruptions.
8. Improved decision-making through safety data analysis.
9. Enhanced reputation and passenger confidence.
10. Development of skilled runway safety professionals.

Target Audiences

1. Airport safety managers and safety officers.
2. Air traffic controllers and air navigation service providers.

3. Airport operations managers and supervisors.
4. Airline operations and flight safety professionals.
5. Civil aviation authority inspectors and regulators.
6. Airport engineering and maintenance personnel.
7. Ground handling and aviation service providers.
8. Emergency response and airport security teams.

Course Duration: 5 days

Course Modules

Module 1: Fundamentals of Runway Safety Management

- Introduction to runway safety management systems and aviation safety principles.
- Understanding ICAO Annex 14 requirements and global runway safety frameworks.
- Roles and responsibilities of runway safety teams.
- Identifying key runway safety challenges in modern airports.
- Global case study: Runway safety improvements implemented at Singapore Changi Airport.
- Practical exercise on developing runway safety objectives and policies.

Module 2: Runway Hazard Identification and Risk Assessment

- Techniques for identifying runway hazards and operational risks.
- Conducting runway safety inspections and hazard reporting.
- Applying risk assessment methodologies for runway operations.
- Developing risk mitigation and control measures.
- Global case study: Risk management practices at London Heathrow Airport.
- Workshop on creating runway hazard assessment reports.

Module 3: Runway Incursion Prevention and Control

- Understanding causes and consequences of runway incursions.
- Implementing runway incursion prevention programs.
- Improving communication between pilots, controllers, and ground personnel.
- Using technology to enhance runway movement area awareness.
- Global case study: Runway incursion prevention initiatives at Amsterdam Schiphol Airport.
- Simulation exercise on runway incursion scenarios.

Module 4: Runway Excursion Prevention Strategies

- Understanding runway excursion causes and contributing factors.
- Managing runway surface conditions and friction levels.
- Implementing effective runway inspection procedures.

- Improving aircraft movement safety during adverse weather.
- Global case study: Runway safety improvements at Tokyo Haneda Airport.
- Practical assessment of runway excursion risks.

Module 5: Foreign Object Debris (FOD) Management

- Understanding the impact of FOD on aircraft safety.
- Developing effective FOD prevention and control programs.
- Implementing runway inspection and monitoring systems.
- Training employees on FOD awareness and reporting.
- Global case study: FOD management practices at Dubai International Airport.
- Practical development of FOD prevention strategies.

Module 6: Wildlife Hazard Management and Safety Control

- Understanding wildlife risks affecting runway operations.
- Developing wildlife hazard management programs.
- Applying monitoring and mitigation techniques.
- Coordinating wildlife control activities with airport operations.
- Global case study: Wildlife management strategies at Toronto Pearson Airport.
- Exercise on developing wildlife risk reduction plans.

Module 7: Runway Safety Data, Reporting, and Continuous Improvement

- Applying aviation safety data analytics for runway monitoring.
- Developing safety performance indicators and reporting systems.
- Conducting runway incident investigations.
- Implementing corrective and preventive actions.
- Global case study: Data-driven safety improvement programs at Munich Airport.
- Workshop on runway safety performance measurement.

Module 8: Emergency Response and Runway Safety Leadership

- Developing effective runway emergency response procedures.
- Coordinating airport stakeholders during runway incidents.
- Building safety leadership and communication skills.
- Implementing continuous improvement strategies for runway operations.
- Global case study: Emergency response management at Hong Kong International Airport.
- Final project on developing a runway safety improvement plan.

Training Methodology

- Instructor-led presentations covering international runway safety standards and practices.
- Interactive workshops focusing on hazard identification and risk assessment.
- Global airport case studies analyzing successful safety management approaches.
- Practical exercises involving runway safety scenarios and operational challenges.
- Group discussions promoting knowledge sharing among aviation professionals.
- Simulation-based learning for runway incident prevention and response.
- Safety audits and practical demonstrations of runway management techniques.

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

Ready to enroll or request a customized program? Book online or contact us:

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