Airport Redevelopment Planning 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

Airport Redevelopment Planning is a strategic discipline that integrates airport master planning, infrastructure modernization, sustainability, digital transformation, aviation safety, resilience, stakeholder collaboration, and smart mobility solutions. As passenger demand, cargo operations, environmental regulations, and technological innovations continue to reshape the aviation industry, airports must implement future-ready redevelopment strategies that optimize capacity, improve operational efficiency, strengthen resilience, and enhance passenger experience. Airport Redevelopment Planning Training Course equips participants with practical knowledge and globally recognized approaches for planning, evaluating, and implementing airport redevelopment projects aligned with international aviation standards and sustainable development goals.

The course emphasizes airport infrastructure planning, terminal redevelopment, runway expansion, land-use optimization, risk management, environmental sustainability, financial planning, digital airport technologies, and project governance. Participants will examine international redevelopment case studies, explore innovative planning methodologies, and develop strategic frameworks that support long-term airport competitiveness, operational excellence, and investment readiness while complying with ICAO and global aviation best practices

Programme Curriculum

Airport Redevelopment Planning Training Course

Introduction

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Course Objectives

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

1. Understand modern airport redevelopment planning principles.
2. Develop strategic airport master redevelopment plans.
3. Evaluate airport capacity and infrastructure requirements.
4. Integrate smart airport technologies into redevelopment projects.
5. Apply sustainable and climate-resilient airport planning practices.
6. Conduct airport risk and operational impact assessments.
7. Improve terminal, runway, and landside infrastructure planning.
8. Strengthen stakeholder engagement and governance processes.
9. Develop airport financial and investment planning strategies.
10. Implement international aviation regulatory compliance frameworks.
11. Enhance airport operational efficiency through redevelopment initiatives.
12. Analyze global airport redevelopment case studies.
13. Design future-ready airport redevelopment roadmaps.

Organizational Benefits

- Improved airport infrastructure planning capability.
- Increased operational efficiency and passenger satisfaction.
- Better investment and financial decision-making.
- Enhanced regulatory compliance and safety performance.
- Stronger stakeholder coordination.
- Improved sustainability and environmental performance.
- Greater resilience against operational disruptions.
- Optimized airport land utilization.
- Faster project delivery through effective planning.
- Increased long-term airport competitiveness.

Target Audience

- Airport Directors

- Airport Planning Managers
- Civil Aviation Authorities
- Infrastructure Engineers
- Airport Project Managers
- Urban and Transport Planners
- Aviation Consultants
- Government Infrastructure Officials

Course Duration: 5 days

Course Modules

Module 1: Airport Redevelopment Fundamentals

- Airport redevelopment concepts and planning frameworks
- Airport master planning process
- Infrastructure lifecycle management
- Airport growth forecasting
- Regulatory planning requirements
- Case Study: Singapore Changi Airport Expansion

Module 2: Airport Capacity and Infrastructure Planning

- Passenger demand forecasting
- Terminal redevelopment planning
- Runway and taxiway optimization
- Airside and landside integration
- Utility infrastructure planning
- Case Study: Istanbul Airport Development

Module 3: Sustainable Airport Redevelopment

- Green airport initiatives
- Carbon reduction strategies
- Climate resilience planning
- Environmental impact assessment
- Sustainable infrastructure design
- Case Study: Oslo Airport Sustainability Program

Module 4: Financial and Investment Planning

- Airport redevelopment budgeting
- Cost-benefit analysis

- Public-private partnerships
- Funding and financing models
- Investment risk management
- Case Study: Denver International Airport Expansion

Module 5: Smart Airport Technologies

- Digital airport transformation
- BIM and digital twin applications
- Intelligent transport systems
- Airport automation solutions
- Data-driven decision-making
- Case Study: Hamad International Airport Smart Technologies

Module 6: Risk Management and Governance

- Project governance structures
- Operational risk assessment
- Business continuity planning
- Safety management integration
- Stakeholder engagement strategies
- Case Study: Heathrow Terminal Redevelopment

Module 7: Airport Project Implementation

- Redevelopment project scheduling
- Procurement strategies
- Construction phase management
- Quality assurance systems
- Performance monitoring
- Case Study: Beijing Daxing International Airport

Module 8: Future Trends in Airport Redevelopment

- Airport City (Aerotropolis) concepts
- Emerging aviation technologies
- Digital innovation strategies
- Future mobility integration
- Long-term redevelopment planning
- Case Study: Hong Kong International Airport Three-Runway System

Training Methodology

- Interactive expert-led presentations
- Facilitated group discussions
- Practical planning workshops
- Airport redevelopment simulations
- International case study analysis
- Individual and group exercises
- Planning software demonstrations
- Scenario-based learning
- Knowledge assessments
- Action planning 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

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