Training Course on Airport Collaborative Decision Making (ACDM)

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

Training Course on Airport Collaborative Decision Making (ACDM) offers a deep dive into **Airport Collaborative Decision Making (A-CDM)**, a paradigm-shifting approach to airport operations. A-CDM fosters seamless **information sharing**, **enhanced coordination**, and **joint decision-making** among all airport stakeholders, including Air Traffic Control (ATC), airlines, ground handlers, and airport authorities. By promoting a **common operational picture**, this course equips participants with the essential knowledge and practical skills to **optimize airport efficiency**, **reduce delays**, and elevate **operational predictability** within the dynamic aviation ecosystem.

In today's rapidly evolving air transport landscape, characterized by increasing traffic volumes and complex operational challenges, effective **resource management** and **real-time situational awareness** are paramount. This A-CDM training program addresses these critical needs, guiding professionals through the principles and practical implementation of A-CDM. Participants will learn how to leverage collaborative strategies to improve **on-time performance**, minimize **environmental impact**, and enhance **passenger experience**, ultimately contributing to a more resilient and sustainable airport environment.

Programme Curriculum

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5 days

Course Objectives

1. Comprehend the core concepts, benefits, and foundational elements of Airport Collaborative Decision Making.
2. Implement A-CDM methodologies to streamline airport processes and optimize resource utilization.
3. Apply collaborative strategies to mitigate flight delays and improve turnaround times.
4. Develop techniques for achieving higher punctuality rates for arrivals and departures.
5. Facilitate seamless data exchange among diverse airport stakeholders for improved situational awareness.
6. Build effective communication channels and trust among airport partners.
7. Integrate A-CDM with ATFM initiatives for efficient airspace and ground traffic management.
8. Develop robust strategies for managing irregular operations and adverse conditions through A-CDM.
9. Understand the role of advanced technologies and digital platforms in A-CDM implementation.
10. Utilize key performance indicators (KPIs) to evaluate A-CDM effectiveness and identify areas for continuous improvement.
11. Adhere to relevant aviation regulations and international standards in A-CDM deployment.
12. Contribute to reduced fuel consumption and emissions through optimized taxi times and ground movements.
13. Improve predictability and reduce stress for travelers through more efficient airport operations.

Organizational Benefits

- Optimizes the use of existing infrastructure, handling more flights efficiently.
- Reduces fuel consumption, minimizes idle time, and optimizes staff deployment.
- Improves situational awareness, reducing the likelihood of incidents on the apron and taxiways.
- Fosters trust and cooperation among airlines, ATC, ground handlers, and airport management.
- Enables quicker and more coordinated responses to adverse weather, technical issues, or other unforeseen events.

- Provides more accurate estimates for flight movements, allowing for proactive resource allocation.
- Positions the airport as a modern, efficient, and reliable hub for air travel.
- Contributes to a greener aviation industry through reduced emissions and noise pollution.

Target Audience

1. Airport Operations Managers & Staff
2. Air Traffic Controllers (ATCs) & Supervisors.
3. Airline Operations Personnel
4. Ground Handling Agents (GHAs) & Supervisors
5. Airport Authority Representatives.
6. Aviation Regulators & Safety Inspectors
7. IT and Systems Integration Specialists in Aviation.
8. Consultants and Project Managers in Aviation Infrastructure

Course Outline

Module 1: Foundations of A-CDM and Collaborative Principles

- Introduction to Airport Collaborative Decision Making (A-CDM) concept and its evolution.
- Understanding the five key A-CDM milestones and their significance.
- The importance of common situational awareness and shared data.
- Role of trust and transparency in collaborative environments.
- Overview of international A-CDM initiatives and standards (e.g., Eurocontrol, ICAO).
- **Case Study:** *Analysis of a major European hub's initial A-CDM implementation challenges and successes, focusing on stakeholder buy-in.*

Module 2: A-CDM Information Sharing and Technology

- Key data elements required for effective A-CDM.
- Mechanisms and platforms for real-time information exchange (e.g., A-CDM systems, APIs).
- Data quality management and validation in a collaborative setting.
- Cybersecurity considerations for shared aviation data.
- Future trends in information sharing, including AI and machine learning applications.
- **Case Study:** *Examining a specific airport's journey in integrating disparate data sources into a unified A-CDM platform, highlighting technological hurdles and solutions.*

Module 3: Pre-Departure Sequence (PDS) and Target Times

- Principles of PDS and its role in optimizing runway utilization.
- Calculating Target Take-Off Time (TTOT) and Target Start-Up Approval Time (TSAT).
- Managing slot adherence and departure sequencing under varying conditions.
- Impact of PDS on fuel efficiency and reduced taxi times.
- Tools and software supporting PDS implementation.
- **Case Study:** *A detailed look at an airport that significantly reduced taxi-out times and congestion through effective PDS implementation, including the measurable benefits.*

Module 4: Variable Taxi Time (VTT) and Turnaround Process Optimization

- Understanding VTT calculations and their impact on predictability.
- Optimizing the aircraft turnaround process through collaborative actions.
- Role of ground handlers in A-CDM and efficient resource allocation.

- Minimizing gate hold times and apron congestion.
- Measuring and improving turnaround efficiency KPIs.
- **Case Study:** *An airline and ground handler partnership that used A-CDM principles to shave minutes off their average turnaround time, leading to significant cost savings and improved OTP.*

Module 5: A-CDM in Adverse Conditions and Irregular Operations

- Leveraging A-CDM for effective crisis management and disruption recovery.
- Collaborative strategies for managing adverse weather, technical faults, and other disruptions.
- Communication protocols during irregular operations.
- Prioritization of flights and resource re-allocation in challenging scenarios.
- Post-event analysis and continuous improvement from disruptions.
- **Case Study:** *How a major airport utilized A-CDM during a severe winter storm to maintain a higher level of operational continuity and minimize passenger impact compared to previous years.*

Module 6: Stakeholder Roles and Responsibilities in A-CDM

- Detailed roles and responsibilities of Airport Operators.
- Specific contributions and benefits for Airlines.
- The critical role of Air Navigation Service Providers (ANSPs/ATC).
- Engagement and data requirements for Ground Handling Agents.
- Collaboration with other key partners (e.g., de-icing, fuelling, security).
- **Case Study:** *Examining a successful A-CDM implementation where all stakeholders clearly defined and adhered to their roles, leading to synergistic operational improvements.*

Module 7: Implementation and Project Management of A-CDM

- Phased approach to A-CDM implementation and project lifecycle.
- Conducting a gap analysis and readiness assessment for A-CDM adoption.
- Change management strategies for integrating new processes and technologies.
- Training and awareness programs for all personnel.
- Best practices for project governance and continuous improvement.
- **Case Study:** *The lessons learned from an airport's multi-year A-CDM implementation project, including common pitfalls and strategies for overcoming them.*

Module 8: Performance Monitoring, Benefits Realization, and Future Outlook

- Defining key performance indicators (KPIs) for A-CDM effectiveness.
- Tools and techniques for data analysis and performance reporting.
- Quantifying the benefits of A-CDM (e.g., fuel savings, delay reduction, passenger satisfaction).
- Emerging trends in aviation and their impact on A-CDM (e.g., UAM, AI-driven ATC).
- Strategies for sustaining A-CDM benefits and fostering innovation.
- **Case Study:** *A quantitative analysis of the tangible benefits achieved by an airport after 2 years of A-CDM operation, demonstrating ROI and operational improvements.*

Training Methodology

This training course employs a **blended learning approach** to maximize engagement and knowledge retention. Methodologies include:

- **Interactive Lectures:** Facilitating conceptual understanding and expert insights.
- **Group Discussions & Brainstorming:** Encouraging peer-to-peer learning and diverse perspectives.
- **Practical Exercises & Simulations:** Applying theoretical knowledge to real-world scenarios.
- **Case Studies:** Analyzing successful and challenging A-CDM implementations for practical insights.
- **Q&A Sessions:** Addressing specific queries and fostering deeper understanding.
- **Role-Playing:** Simulating collaborative decision-making processes.
- **Multimedia Resources:** Utilizing videos, infographics, and interactive tools for dynamic learning.
- **Expert-Led Workshops:** Hands-on sessions with industry professionals.

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
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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