Sustainable Ground Handling 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

Sustainable Ground Handling Training Course is designed to equip aviation professionals with advanced knowledge and practical skills required to implement environmentally responsible, efficient, and cost-effective ground handling operations. As the aviation industry accelerates toward net-zero emissions, carbon reduction, green airport operations, and sustainable aviation practices, ground handling organizations must adopt innovative solutions that minimize environmental impact while maintaining operational excellence. This course focuses on sustainable ground support equipment, energy efficiency, waste management, emissions reduction strategies, and compliance with global aviation sustainability standards.

Sustainable ground handling has become a critical component of modern airport management, driven by international regulations, climate action commitments, and passenger expectations for greener aviation services. Participants will explore best practices from leading airports worldwide, including sustainable fleet management, electric ground support equipment adoption, digital transformation, resource optimization, and environmental performance monitoring. The course integrates global case studies, industry benchmarks, and practical strategies to help organizations achieve operational resilience, improved safety, and long-term sustainability goals.

Programme Curriculum

Sustainable Ground Handling Training Course

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Course Objectives

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

1. Understand sustainable aviation principles and their application in ground handling operations.
2. Develop carbon reduction strategies aligned with global aviation sustainability goals.
3. Implement green ground support equipment management practices.
4. Apply energy efficiency solutions within airport ground operations.
5. Improve waste management and resource conservation systems.
6. Utilize digital technologies for sustainable operational performance.
7. Understand environmental compliance requirements and international standards.
8. Develop sustainable ground handling policies and procedures.
9. Optimize fuel consumption and emissions monitoring processes.
10. Promote safety, efficiency, and sustainability integration.
11. Evaluate renewable energy solutions for airport operations.
12. Apply sustainability performance indicators and reporting frameworks.
13. Lead organizational transformation toward environmentally responsible ground handling.

Organizational Benefits

- Reduced operational costs through improved energy and resource efficiency.
- Lower carbon emissions through sustainable ground handling practices.
- Enhanced compliance with international environmental regulations.
- Improved airport sustainability ratings and corporate reputation.
- Increased adoption of innovative green technologies.
- Better workforce awareness of environmental responsibilities.
- Improved operational efficiency and asset utilization.
- Stronger alignment with net-zero aviation objectives.
- Enhanced passenger confidence through sustainable operations.
- Improved long-term business resilience.

Target Audiences

1. Airport ground operations managers.

2. Ground handling company executives.
3. Airport sustainability officers.
4. Airline operations managers.
5. Ground support equipment supervisors.
6. Environmental compliance professionals.
7. Aviation safety managers.
8. Airport operations planners.

Course Duration: 5 days

Course Modules

Module 1: Fundamentals of Sustainable Ground Handling Operations

- Introduction to sustainable aviation and green airport strategies.
- Understanding environmental impacts of ground handling activities.
- Sustainable operational frameworks for airport services.
- Carbon footprint assessment in ground handling operations.
- Global case study: Amsterdam Schiphol Airport sustainability initiatives.
- Developing sustainability awareness among aviation teams.

Module 2: Green Ground Support Equipment Management

- Introduction to electric and hybrid ground support equipment.
- Strategies for reducing fuel consumption and emissions.
- Equipment lifecycle management and sustainability planning.
- Maintenance practices for energy-efficient operations.
- Global case study: Los Angeles International Airport electric GSE programs.
- Implementing sustainable equipment transition strategies.

Module 3: Carbon Management and Emission Reduction

- Principles of carbon accounting in airport operations.
- Developing carbon reduction action plans.
- Measuring greenhouse gas emissions from ground activities.
- Carbon offsetting and reduction opportunities.
- Global case study: Heathrow Airport carbon management approach.
- Creating effective emission monitoring systems.

Module 4: Energy Efficiency and Renewable Solutions

- Energy optimization techniques for ground operations.
- Renewable energy applications in airports.

- Sustainable charging infrastructure for electric equipment.
- Reducing energy waste through operational improvements.
- Global case study: Oslo Airport renewable energy initiatives.
- Implementing energy management programs.

Module 5: Sustainable Waste and Resource Management

- Waste reduction strategies in ground handling services.
- Recycling and circular economy principles.
- Managing hazardous materials responsibly.
- Water conservation practices in airport operations.
- Global case study: Singapore Changi Airport sustainability programs.
- Developing effective waste management policies.

Module 6: Digital Transformation for Sustainable Operations

- Using digital tools for sustainability monitoring.
- Data analytics for environmental performance improvement.
- Smart airport technologies and automation solutions.
- Real-time operational efficiency tracking.
- Global case study: Dubai International Airport digital sustainability solutions.
- Implementing technology-driven sustainability strategies.

Module 7: Sustainability Compliance and Future Aviation Trends

- International sustainability standards and regulations.
- Environmental management systems for airports.
- Sustainable aviation fuel awareness and integration.
- Future trends in green aviation operations.
- Global case study: Copenhagen Airport sustainability roadmap.
- Building long-term sustainable ground handling strategies.

Module 8: Sustainable Ground Handling Leadership and Implementation

- Developing sustainability leadership capabilities.
- Creating organizational sustainability action plans.
- Managing cultural change toward green operations.
- Measuring sustainability performance indicators.
- Global case study: Munich Airport environmental excellence program.
- Presenting sustainable ground handling improvement projects.

Training Methodology

- Instructor-led interactive classroom sessions.
- Practical exercises and sustainability workshops.
- Global aviation case study analysis.
- Group discussions and problem-solving activities.
- Real-world airport sustainability scenarios.
- Video demonstrations and operational examples.
- Sustainability assessment exercises.
- Participant presentations and feedback 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:

Register Online Now

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