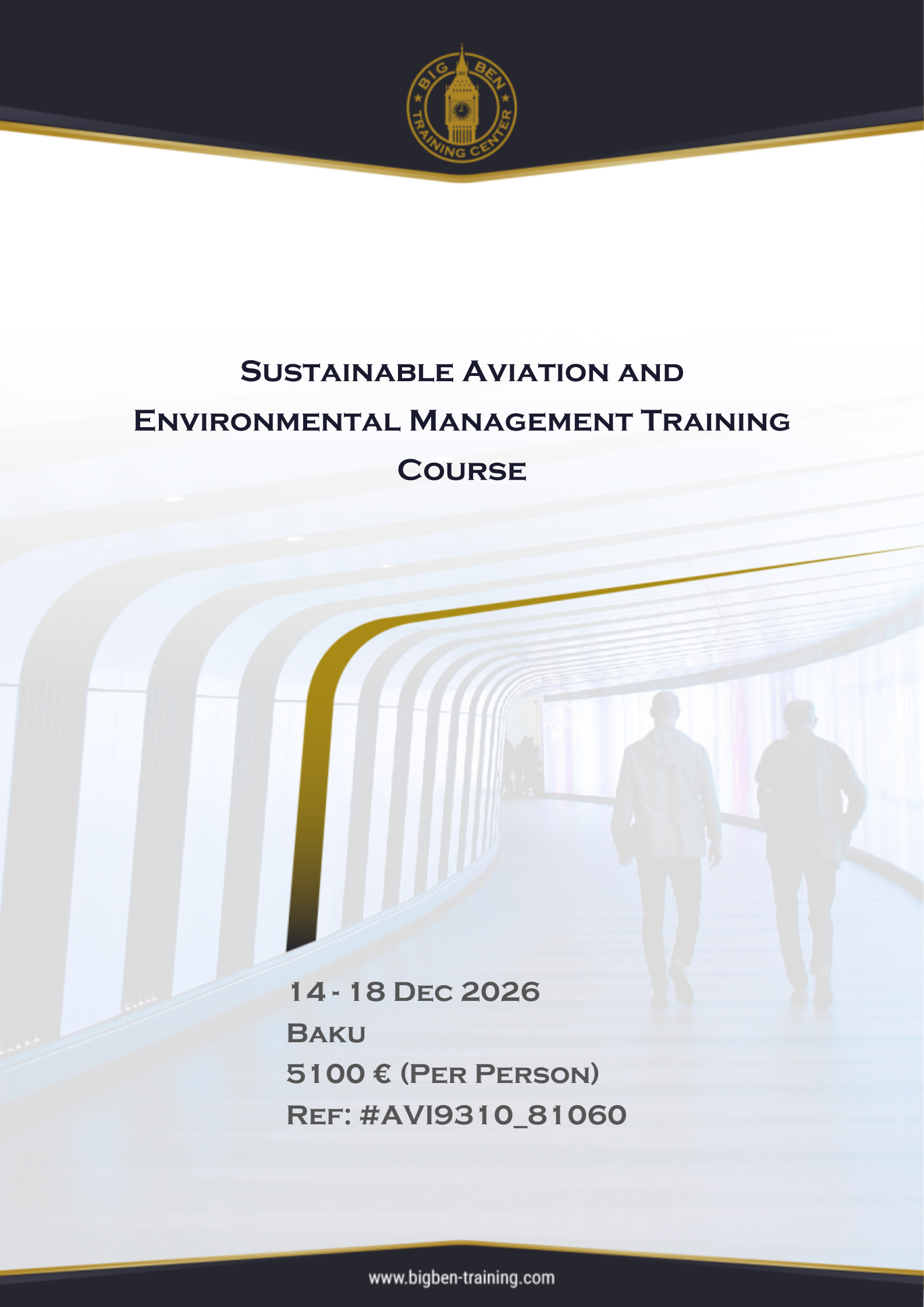
Sustainable Aviation and Environmental Management Training Course



14 - 18 Dec 2026

Baku

5100 € (Per Person)

Ref: #AVI9310_81060

Course Introduction / Overview:

The global aviation industry is at a critical juncture, facing immense pressure to mitigate its environmental impact while sustaining economic growth. This course provides a comprehensive framework for understanding and implementing sustainable practices across the aviation ecosystem. It delves into the complex interplay of technology, policy, and operational strategy required to achieve a greener future for air travel. We will explore key concepts detailed by leading academics like Dr. Stefan Gössling, whose research illuminates the challenges and opportunities in decarbonizing transport. The curriculum is designed to move beyond theoretical discussions, offering practical insights into implementing Environmental Management Systems (EMS), navigating the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA), and evaluating the viability of Sustainable Aviation Fuels (SAF). As detailed in publications like "Sustainable Aviation Futures," the path forward requires a multi-faceted approach. BIG BEN Training Center has developed this program to equip professionals with the strategic foresight and technical knowledge to lead their organizations towards environmental excellence and long-term resilience in a rapidly evolving regulatory landscape.

Target Audience / This training course is suitable for:

- Airline Operations Managers.
- Airport Environmental Officers.
- Aviation Policy Makers and Regulators.
- Corporate Sustainability and ESG Managers.
- Aviation Consultants and Analysts.
- Fleet Planning and Procurement Specialists.
- Air Traffic Management Professionals.
- Aerospace Engineers and Technologists.
- Government Officials in Transport and Environment Ministries.

Target Sectors and Industries:

- Commercial Airlines.
- Airport Authorities and Operators.
- Air Navigation Service Providers (ANSPs).
- Aircraft and Engine Manufacturing Companies.
- Maintenance, Repair, and Overhaul (MRO) Providers.
- Aviation Fuel Suppliers.
- Governmental Regulatory Bodies and Environmental Agencies.
- Corporate and Business Aviation.
- Air Cargo and Logistics Companies.

Target Organizations Departments:

- Sustainability and Corporate Social Responsibility (CSR).
- Environmental, Health, and Safety (EHS).
- Flight and Ground Operations.
- Strategic Planning and Corporate Development.
- Regulatory Compliance and Legal Affairs.
- Fleet Management and Acquisition.
- Government and Public Affairs.
- Engineering and Maintenance.
- Supply Chain and Procurement.

Course Offerings:

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

- Develop and implement a comprehensive Environmental Management System (EMS) for an airline or airport.
- Analyze the global regulatory framework for aviation emissions, including ICAO standards and CORSIA.
- Evaluate the lifecycle, benefits, and challenges of various Sustainable Aviation Fuels (SAF).
- Master carbon footprint calculation methodologies for aviation operations.
- Design effective carbon offsetting and reduction strategies.
- Implement best practices for noise abatement, waste management, and water conservation.
- Integrate sustainability principles into corporate strategy and stakeholder communications.
- Assess the potential of emerging green aviation technologies, such as electric and hydrogen propulsion.
- Conduct environmental impact assessments for new aviation projects and infrastructure.
- Prepare robust ESG and sustainability reports in line with global standards.

Course Methodology:

This training course from BIG BEN Training Center employs a dynamic and interactive learning methodology designed for maximum knowledge retention and practical application. The approach is centered on a blend of expert-led instruction, real-world case study analysis, and collaborative problem-solving. Participants will engage with case studies from leading airlines and airports that have successfully implemented sustainability initiatives, deconstructing their strategies and outcomes. Interactive workshops will provide hands-on experience in tasks such as calculating carbon emissions and developing a basic EMS framework. Group discussions and debates are integral to the program, encouraging participants to share diverse perspectives on complex issues like policy effectiveness and the economic feasibility of new technologies. The training sessions are structured to foster a participatory environment where learners can directly apply theoretical concepts to practical scenarios relevant to their own organizations. Continuous feedback from the instructor ensures that participants can clarify doubts and solidify their understanding, leaving the course with not just knowledge, but also the confidence to implement sustainable aviation strategies.

Course Agenda (Course Units):

Unit One Foundations of Sustainable Aviation

- Introduction to Aviation and Environmental Sustainability.
- The Science of Climate Change and Aviation's Impact.
- Global Regulatory Frameworks: ICAO, UNFCCC, and Regional Policies.
- Understanding the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA).
- The Role of Stakeholders in Green Aviation.
- Key Performance Indicators (KPIs) for Aviation Sustainability.
- Introduction to Environmental Economics in Aviation.

Unit Two Technological Pathways to Decarbonization

- Sustainable Aviation Fuels (SAF): Production, Types, and Challenges.
- Future Propulsion Systems: Electric, Hybrid, and Hydrogen Aircraft.
- Innovations in Airframe and Engine Efficiency.
- Advanced Air Traffic Management and Operational Efficiencies.
- Digitalization and its Role in Sustainable Operations.
- Sustainable Materials and the Circular Economy in Aircraft Manufacturing.
- Assessing the Technology Readiness Level (TRL) of Green Innovations.

Unit Three Airport Environmental Management

- Developing and Implementing an Airport Environmental Management System (EMS) based on ISO 14001.
- Airport Noise Management and Community Engagement Strategies.
- Waste Management and Recycling Programs in Airport Operations.
- Water Conservation and Wastewater Management Techniques.
- Biodiversity Management on and around Airport Premises.
- Sustainable Ground Handling Operations and Electrification of Ground Fleets.
- Climate Change Adaptation and Resilience for Airport Infrastructure.

Unit Four Carbon Management and Economic Instruments

- Methodologies for Calculating an Airline's Carbon Footprint.
- Emissions Trading Systems (ETS) in Aviation.
- Voluntary vs. Mandatory Carbon Offsetting.
- Selecting and Verifying High-Quality Carbon Credits.
- Practical Implementation of CORSIA Monitoring, Reporting, and Verification (MRV).
- The Economics of Carbon Pricing and its Impact on Aviation.
- Developing a Comprehensive Carbon Reduction Strategy.

Unit Five Strategy, Reporting, and the Future of Green Aviation

- Integrating Sustainability into Corporate Strategy and Governance.
- Environmental, Social, and Governance (ESG) Reporting for Airlines and Airports.
- Effective Stakeholder Communication and Green Marketing.
- Financing the Transition to Sustainable Aviation.
- Policy Advocacy and Industry Collaboration.
- Future Trends and Disruptive Innovations in Sustainable Air Travel.
- Capstone Project: Developing a Sustainability Roadmap for a Fictional Airline.

FAQ:

Qualifications required for registering to this course?

There are no requirements.

How long is each daily session, and what is the total number of training hours for the course?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.

Something to think about:

Considering the projected growth in air travel demand, how can the aviation industry reconcile its economic objectives with the absolute necessity of achieving net-zero emissions by 2050, and what fundamental shifts in business models might be required?

What unique qualities does this course offer compared to other courses?

This course distinguishes itself through its holistic and pragmatic approach to a highly complex subject. While many programs focus narrowly on either technology or policy, this curriculum synthesizes these critical areas with strategic business management. It moves beyond theoretical knowledge to provide a deep, actionable understanding of implementation, focusing on frameworks like CORSIA MRV and ISO 14001 for airports. Participants will not only learn about Sustainable Aviation Fuels but will also critically analyze their supply chain logistics, economic viability, and policy support mechanisms. The course is uniquely future-focused, dedicating significant time to emerging technologies like hydrogen propulsion and the principles of a circular economy within aviation, preparing professionals for the next frontier of sustainability. Rather than simply listing challenges, the program emphasizes developing concrete, data-driven strategies and roadmaps. The inclusion of ESG reporting and green finance modules ensures that participants can effectively communicate and fund their sustainability initiatives, bridging the gap between environmental goals and corporate reality.