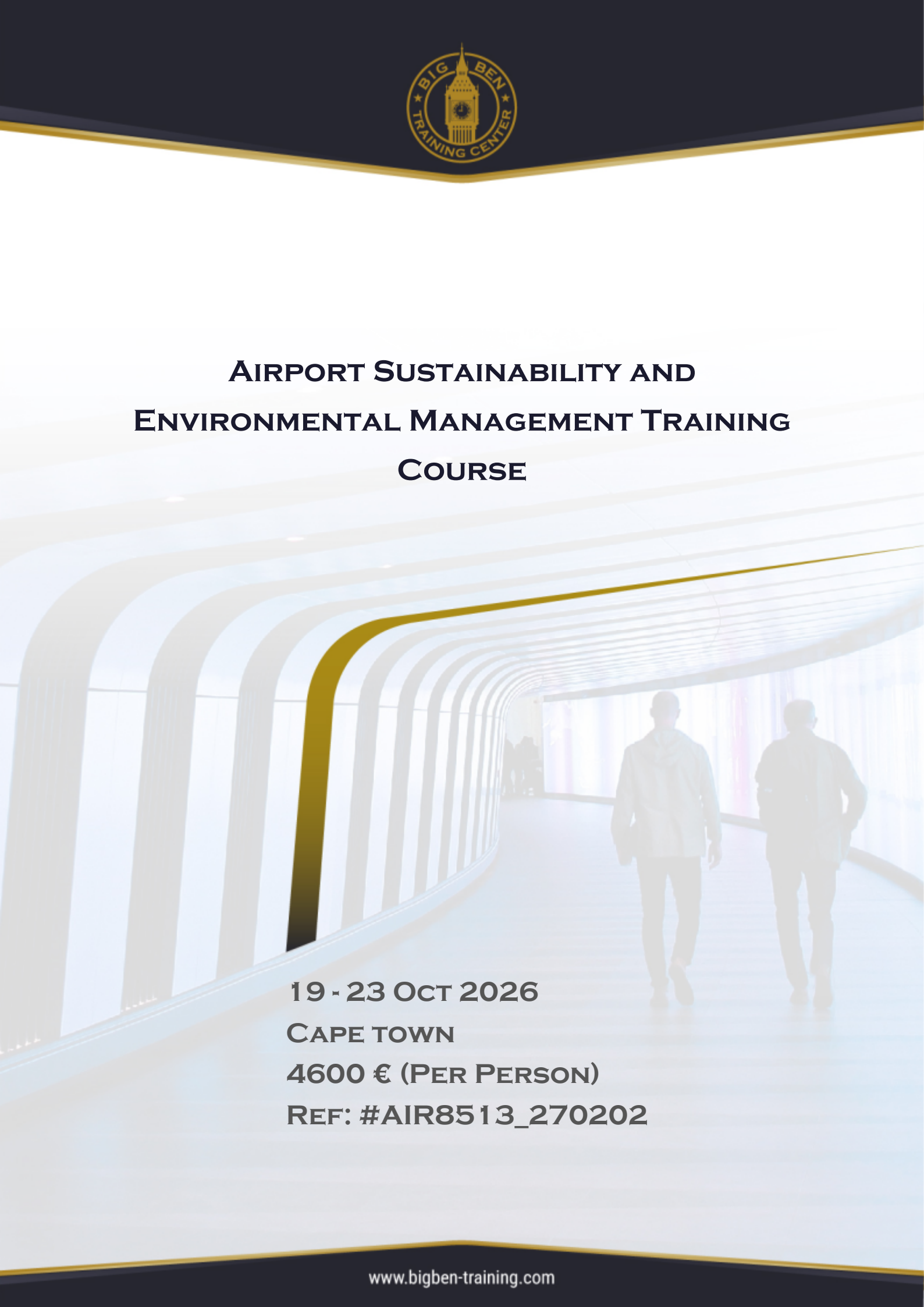
Airport Sustainability and Environmental Management Training Course



19 - 23 Oct 2026

Cape town

4600 € (Per Person)

Ref: #AIR8513_270202

Course Introduction / Overview:

The global aviation industry is at a critical juncture, facing immense pressure to balance operational growth with environmental stewardship. This intensive training course provides a comprehensive framework for understanding and implementing sustainable practices within the airport ecosystem. Moving beyond basic compliance, the curriculum delves into the strategic integration of environmental management into core airport operations, planning, and long-term development. As detailed by experts like Milan Janic in works such as "Greening Airports: Advanced Technology and Operations", the future of aviation hinges on proactive, innovative environmental solutions. This program, offered by BIG BEN Training Center, is meticulously designed to equip professionals with the necessary tools to navigate complex regulatory landscapes, manage environmental impacts such as noise and emissions, and lead climate action initiatives. Participants will explore everything from establishing an Environmental Management System (EMS) to pioneering strategies in energy efficiency, waste reduction, and community engagement, transforming their airports into models of sustainability and corporate responsibility.

Target Audience / This training course is suitable for:

- Airport Environmental Managers and Specialists.
- Airport Operations Directors and Managers.
- Aviation Planners and Consultants.
- Corporate Social Responsibility (CSR) and Sustainability Officers.
- Airport Engineering and Infrastructure Managers.
- Regulatory Compliance Officers.
- Government Officials from Aviation and Environmental Agencies.
- Airline Environmental and Sustainability Staff.
- Ground Handling Operations Managers.

Target Sectors and Industries:

- Aviation and Aerospace.
- Air Transportation and Logistics.
- Airport Management and Operations.
- Environmental Consulting.
- Governmental and Regulatory Bodies.
- Infrastructure and Urban Planning.
- Travel and Tourism.

Target Organizations Departments:

- Environmental and Sustainability Departments.
- Operations and Airside Management.
- Planning and Development.
- Engineering and Maintenance.
- Corporate Social Responsibility (CSR).
- Health, Safety, and Environment (HSE).
- Legal and Regulatory Compliance.
- Public and Community Relations.
- Procurement and Supply Chain Management.

Course Offerings:

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

- Develop and implement a robust Airport Environmental Management System (EMS) based on ISO 14001 standards.
- Analyze and mitigate key environmental impacts, including aircraft noise, local air quality, and water pollution.
- Master the principles of airport carbon footprinting and navigate the Airport Carbon Accreditation (ACA) program.
- Formulate effective strategies for energy conservation, renewable energy integration, and operational efficiency.
- Implement circular economy principles to design and manage comprehensive airport waste reduction programs.
- Lead effective stakeholder and community engagement initiatives to build trust and collaborative partnerships.
- Integrate sustainability criteria into airport procurement and supply chain management processes.
- Prepare and deliver compelling environmental performance and ESG reports for internal and external stakeholders.
- Evaluate the financial implications and business case for investing in sustainable airport infrastructure and technologies.

Course Methodology:

This training course employs a dynamic and interactive learning methodology designed to foster deep understanding and practical application. The program, facilitated by seasoned experts at BIG BEN Training Center, moves beyond traditional lectures to create an immersive educational experience. Core concepts are introduced through clear, expert-led presentations, which are then reinforced through a series of real-world case studies from leading sustainable airports globally. Participants will engage in collaborative group workshops and problem-solving sessions, allowing them to apply theoretical knowledge to practical airport scenarios. Interactive discussions and peer-to-peer learning are central to the course, encouraging the exchange of diverse perspectives and experiences. Practical exercises, such as developing a draft environmental policy or a stakeholder communication plan, ensure that skills are immediately applicable. Continuous feedback and Q&A sessions are integrated throughout the five days to address specific challenges and ensure all learning objectives are met, empowering participants to return to their organizations with actionable strategies and renewed confidence.

Course Agenda (Course Units):

Unit One: Foundations of Airport Sustainability and Environmental Management

- Introduction to Sustainable Aviation.
- The Global Regulatory Framework for Airport Environmental Management (ICAO, IATA, ACI).
- Key Environmental Challenges in the Airport Industry.
- Principles of an Environmental Management System (EMS) and ISO 14001.
- Stakeholder Identification and Engagement for Sustainability.
- The Business Case for Airport Sustainability.
- Developing an Airport Environmental Policy.

Unit Two: Managing Environmental Impacts: Noise, Air, and Water Quality

- Airport Noise Management and Mitigation Strategies.
- Fundamentals of Aircraft Noise Modeling and Contouring.
- Managing Local Air Quality and Greenhouse Gas Emissions.
- Strategies for Water Conservation and Wastewater Management.
- Groundwater and Surface Water Protection Protocols.
- Hazardous Materials and De-icing Operations Management.
- Environmental Impact Assessments (EIA) for Airport Projects.

Unit Three: Climate Action, Energy, and Waste Management

- Calculating an Airport's Carbon Footprint.
- Navigating the Airport Carbon Accreditation (ACA) Program.
- Strategies for Energy Efficiency and Conservation in Terminals and Airside Operations.
- Integration of Renewable Energy Sources (Solar, Geothermal).
- Principles of the Circular Economy in an Airport Context.
- Developing and Implementing a Comprehensive Waste Management Plan.
- Sustainable Procurement and Green Supply Chains.

Unit Four: Biodiversity, Land Use, and Community Relations

- Wildlife Hazard Management and Biodiversity Conservation.
- Sustainable Land Use Planning for Airport Development.
- Building Effective Community Engagement and Communication Programs.
- Managing and Responding to Environmental Complaints.
- Corporate Social Responsibility (CSR) in the Airport Sector.
- Case Studies in Successful Community Partnership Programs.
- The Role of Airports in Promoting Regional Sustainable Development.

Unit Five: Strategic Implementation, Reporting, and Future Trends

- Developing a Long-Term Airport Sustainability Strategy.
- Environmental, Social, and Governance (ESG) Reporting Frameworks.
- Green Financing and Securing Investment for Sustainability Projects.
- The Role of Technology and Innovation in Greening Airports.
- Preparing for Climate Change Resilience and Adaptation.
- The Future of Sustainable Aviation Fuels (SAF) and Electric Aircraft.
- Creating a Culture of Sustainability within the Airport Organization.

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:

As airports invest heavily in sustainable infrastructure and technologies, how can they effectively measure and communicate the return on investment beyond financial metrics to include social and environmental value?

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

This course distinguishes itself by adopting a strategic, leadership-focused perspective on airport sustainability, moving participants beyond mere operational compliance. While other programs may focus narrowly on specific technical issues, this curriculum provides a holistic, integrated framework that connects environmental management directly to an airport's core business strategy, financial health, and social license to operate. A key differentiator is the emphasis on the practical application of global best practices, utilizing in-depth case studies of airports that have successfully balanced growth with environmental responsibility. The course content is meticulously structured to build skills progressively, from foundational knowledge of EMS and regulatory frameworks to advanced topics like climate resilience, ESG reporting, and green financing. Rather than just presenting information, this training course from BIG BEN Training Center is designed to cultivate a mindset of proactive environmental leadership, empowering participants to champion and implement transformative sustainability initiatives within their own organizations, thereby creating lasting value for their stakeholders and the community.