
Professional Certificate Course E08-E

Course Name **Alternative Aviation Fuels and Electric Flight: Impact in Airport Infrastructure and Operations**

Delivery *Virtual Class / Online* 5 days (3 hours per day)
 Onsite / Classroom 4 days (8 hours per day)

About the Course

This course delves into the transformative shifts occurring in the aviation industry towards more sustainable practices. It focuses on alternative aviation fuels, particularly Sustainable Aviation Fuels (SAF) and hydrogen, as well as the integration of electric flight into airport operations. It will highlight the opportunities/challenges, regulatory environment, and market trends per technology. Participants will gain insights into the technical, operational, strategic, and spatial aspects of adopting these alternative fuels and technologies within airport environments. The course intends to position airports as a facilitator of the transition process and work with stakeholders to prepare the airport for future technologies.

Learning Objectives

Upon completion of this course, participants will be able to:

- Overview of technologies, market and regulatory trend analysis for the African markets, threats, and opportunities per technology for airports and airlines.
- Summarise the technical fundamentals of SAF and hydrogen, including their production methods, blending chains, and supply chain considerations.
- Impact of integrating alternative aviation fuels and electric flight on airport infrastructure and operations.
- Understand the stakeholder ecosystem and the airport's role in managing the process.
- Evaluate the considerations for selecting the suitable technology.
- Stakeholder ecosystem for implementation
- Strategic approach outlining next steps for each technology.

Target Audience

- Airport Executives & Boards
- Airport Environmental & Sustainability Managers/Executives
- Airport Risk & Strategy Managers/Executives
- Airport Commercial Managers/Executives
- Airport Planners

Course Structure – In person Class

Day 1	Day 2	Day 3	Day 4
Introduction to alternative aviation fuels and electric flying. Overview of Sustainable Aviation Fuel	Overview of E-flight. Approach to feasibility and integration of electric aircrafts on-airport. Overview of Hydrogen as an alternative fuel. <ul style="list-style-type: none"> - Focus on Supply Chains & local settings 	Understanding financial models for the three technologies. Workshop with airports to chart an alternative fuels action plan.	Airport Presentations
Outcome			
Understanding of the topic and upcoming trends in the African Market	Understanding electric flying and hydrogen aviation.	Preliminary alternative fuels action plan	Mutual learning

For more information or clarification, please contact ACI Africa at aci-africa@aci-africa.aero or visit www.aci-africa.aero