



Professional Certificate Course

Course Name Airport Engineering Design and Construction

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

About the Course

Airport engineering is the branch of aeronautical engineering that applies solid scientific knowledge such as physics, chemistry, materials science, geology and other more specific aspects of the aeronautical-airport sector such as aeronautical infrastructure, structural theory, airspace management, aerodynamics and flight mechanics, aerospace technology.

Learning Objectives

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

- Define the documents used and recognize the course structure.
- Estimate the geometric design characteristics of an airport including taxiways, aprons and runways.
- Estimate if man-made and natural objects constitute obstacles to navigation in the vicinity of an airport.
- Reach the level of the basic procedures, and planning skills of Airfield Markings and Signage.
- Demonstrate familiarization with airfield ground lighting systems, and differentiate between approach lighting systems.
- Identify the requirements of maintenance to hold an (Airport Certificate), to apply and meet regulators requirements.
- Recognize safety management concepts, ICAO Standards, and Recommended Practices (SARPs) on safety management in ICAO annexes and related guidance materials.

Target Audience

Participants should have knowledge of airport layout, operations and facilities:

- Airport Construction and engineering Directors and Managers
- Director/Manager Safety, Safety Supervisor/Officer.
- Airport Operations Directors, Managers and Officers
- Airside inspectors and regulators
- National Aviation Authorities (managers and inspectors)

Course Rates (Euro)

Virtual Class / Online			Onsite / Classroom		
ACI Africa Member	ACI Member	Non-Member	ACI Africa Member	ACI Member	Non-Member
500	750	1000	1000	1500	2000

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