Key Specialties

We help you on how to expand, reconfigure and modernize existing airport infrastructure as well as develop new ones.

1. Airport Buildings
2. Airport Cities, Free Trade Zones and Aero-Tripoli
3. Landside Infrastructure
4. Airside Infrastructure
5. Regulatory Programs
6. Aerospace

Course Duration
5 Days (30 Hours)

Dr. de Neufville
Professor of Systems Engineering at MIT

Mombasa, Kenya
Nyali Sun Africa Beach Hotel
18th – 22nd Nov, 2019

United Arab Emirates
JW Marriot Marquis Hotel
10th -14th Feb, 2020

AIRPORT SYSTEMS:
Design, Planning & Management Training

Register your staff for this training by filling attached form to your email or request for one through:
Tel: +254 (0) 202100045
+254 (0) 202100046
Mob: +254 (0) 716676667
Email: training@aviators-gradsch.org
Web: www.aviators-gradsch.org

❖ Full training and all the required material
❖ 5 days accommodation in a 5 star hotel
❖ All meals including dinner
❖ Airport pick –up and drop off
❖ A cocktail on the last day of training

$3250 ALL INCLUSIVE
Dr. de Neufville is Professor of Systems Engineering at MIT. He wrote the textbooks Airport Systems: Planning, Design, and Management (with Prof. Odoni) and Flexibility in Engineering Systems (MIT Press) as well as 4 others in Systems Planning and Design. He founded and led the development of the MIT Technology and Policy Program, which has been replicated at the University of Cambridge and the Delft University of Technology. He has consulted on landside issues with airports “on every inhabited continent”. He is a founding member of the MIT team collaborating on the development of the Singapore University of Technology and Design. He has received many international awards for research and teaching, including the McKeel Award for Aviation, and the FAA award for Excellence in Aviation Education (with Prof. Odoni).

His previous positions include White House Fellow (President Johnson) 1965-66, and he is a visiting Professorships and Adjunct Appointments to Harvard University, Kennedy School of Government 2000-present; Oxford University, Balliol College 2001; Australian Bureau of Transport and Communications Economics 1995; University of California, Berkeley 1974-78; Cambridge University, 2003; London Graduate School of Business (UK) 1973-74 among others.

He has authored text books such as:

- Engineering Systems Analysis for Design (in preparation)
- Airport Systems Planning (Macmillan and MIT Press, 1976)
- Systems Planning and Design: Case Studies in Modeling, Optimization and Evaluation (Prentice Hall, 1974)
- Systems Analysis for Engineers and Managers (McGraw-Hill, 1971)

He has won over 20 prizes, honors & teaching awards such as:

- NATO Systems Science Prize
- White House Fellow
- US - Japan Leadership Fellow
- US Federal Aviation Award for Excellence in Teaching
- MIT Class of 1960 Fellowship
- Life Member, Cambridge University (England)

Among his major consultancies are:

- US Federal Aviation Administration (Privatization, Multi-Airport Systems, Design of Passenger Buildings, Cost-Benefit Analysis, etc.)
- Analysis Group (Evaluation of Airport Terminals)
- Denver International Airport (Baggage Systems)
- Los Angeles International Airport
- Massachusetts Port Authority
- Miami Airport (Dade County)
- Washington State Air Transport Commission
- Amsterdam Airport Schiphol
- Athens Airport Authority (Greece)
- Australia, Federal Airports Corporation
- Bangkok Second International Airport
- British Airports Authority / BAA plc
- Kuala Lumpur International Airport (Malaysia)
- Mexico, Min. of Communications and Transport
- Philippines, Review of design for International Passenger Terminal IPT3
- Singapore Civil Aviation Authority (Singapore)

He also served as First Lieutenant, Airborne Ranger, US Army Corps of Engineers, NDS Medal and has Ph.D, Master and Bachelor of Science at MIT

Dr. h.c., Delft University of Technology.

The essential elements of current international airport planning and design trends, including airport master planning, layout plans, geometric design and layout of the airfield and terminal facilities, are covered in this course.

Delegates also will be schooled in obstruction analysis, signage and lighting, forecasting, airside and landside interface, and capacity and delay effects. Environmental planning, such as hazardous wildlife attractants, airport noise and compatible land use, is fully covered as well.

Who should attend?

With continued growth in global air travel demand, airport owners and operators need cutting-edge technologies, flexibility and capacity to remain efficient and competitive. They also need reliable solutions to meet growing requirements and sustainability ambitions.

- Governments and regulatory agencies
- Airport Manager and Director
- Airport Operations Managers
- Airport Planning Consultants
- State Departments of transport
- Air Traffic Controllers
- Airline and civil aviation Managers
- Ground handling managers
- Duty Managers and supervisors
- Legal advisers
- Contractors and Architects
- Ministry of transport staffs
Course Objectives

Understand how the fundamentals of design, planning and management are integrated into airport facilities. Included are a review of current airport facilities and their industry ranking in terms of passenger movement and cargo throughput.

Recognize the international differences in planning and design and understand the physical differences of airport design, including the terminal facilities and aircraft parking.

Understand the concept of Multi-Airport Systems and how they impact airport planning and design.

Identify the factors of landside access and egress including intermodal transportation systems to achieve an orderly flow of traffic at the facility. Planning issues related to airport ground access improvements will be examined.

Understand the concepts and processes of baggage handling systems. Mechanical as well as computerized complex systems will be discussed.

DAY 1: INTRODUCTION
- The Future of Airport and Airlines Industry
- The evolving Airline Industry: Impacts on Airports
- International Differences

DAY 2: SYSTEMS PLANNING, DESIGN AND MANAGEMENT
- Dynamic Strategic Planning
- Multi-Airport Systems
- Aviation Environmental Impact and Airport Level Mitigation

DAY 3: THE AIRSIDE
- Airfield Design, Capacity and Delay
- Demand Management
- Air Traffic Management

DAY 4: LANDSIDE
- Configuration and Overall Design of Passenger Building
- Detailed Design of Passenger building
- Ground Access and Distribution

DAY 5: MANAGEMENT
- Organization, funding and user charges
- Airport Finance
- Airport Operations and Economics

For assistance please call or email
Program Coordinator
Ms. Jeniffer Wamaitha Maina
Tel: +254 (0) 202100045
Mob: +254 (0) 716676667
Email: training@aviators-gradsch.org

What exactly will I learn from this program?