

modalis
Infrastructure Partners Inc.



Airport Strategic Master Planning Boot Camp

bringing a world of experience to the airport industry

VANCOUVER | LONDON | SANTIAGO | MIAMI | PANAMA CITY | SINGAPORE

Course presenters:

Peter Bianconi, P.Eng

Adriana Boza

airportIR
INVESTOR RESOURCE

airportSA
STRATEGIC ADVISORY

airportQM
QUALITY MANAGEMENT

airportTS
TALENT SOLUTIONS

Jan. 2022 | COURSE OUTLINE

Synopsis

Airport Strategic Master Planning Boot Camp

Designed for both the novice airport planner and the experienced professionals, this course addressed the traditional subjects such as forecasting, planning the various components of the airport system, as well as the structure and purpose of an airport master plan and placing this into the context of greater regional planning.

In addition to the more conventional aspects, we delve into more contemporary elements such airport organizational structures, private vs public ownership and operation, revenue optimization, etc. We cover important subjects like modern forms of security and where this is headed based on technology and the importance of commercialization of airports.

Presentors



Peter Bianconi, P.Eng
Airport Planning

35+ years of airport planning, design and project management experience on six continents in private and public sectors with extensive experience on BOT/PPP projects, due diligence/analysis in purchases/ownership changes. Specializing in airport master planning, terminal and airfield design for new greenfield, brownfield and existing sites.

- B&A Airport Planners, Principal
- Modalis Infrastructure Partners, Senior Associate
- SNC Lavalin, Director, Airport Planning
- PDK Airport Planning Inc (PAPI), President
- Vancouver International Airport Authority, Manager Planning



Adriana Boza
Airport Operations & Management

15+ years of airport operations and management experience, spanning diverse areas of expertise including operations management, security coordination, safety management systems, capacity planning, flight slot management, airport resource allocation, budget preparation and monitoring, performance, emergency response planning, and safety and quality indicators.

- B&A Airport Planners, Operations and Management Specialist
- Modalis Infrastructure Partners, Associate
- Juan Santa Maria International Airport, San Juan, Costa Rica, Manager of Airside Operations

Objectives

1. Introduce the attendees to the principles of developing an effective master plan
2. Provide the attendees with a historical perspective of airport management and strategic planning
3. Instruct the attendees on how to develop each of the key elements of an airport master plan, including:
 - Aviation Forecasting
 - Site Selection
 - Airside Planning
 - Terminal Planning
 - Ground Access & Parking
 - Capital Financing
 - Commercial Revenues
4. Provide the attendees with extensive case studies and examples to illustrate the principles and planning techniques



Course Program

Module 1 - Introduction to Presentors, Program & Objectives

- Introduction to the presentors
- Course synopsis, objectives and program

Module 2 - Airport Systems, Administration of Successful Airport Operations

- Airport Ownership & Operations vs Airport Privatization
- Understanding Airport Organizational Structure - Chart & Descriptions
- Assessing Airport Modernization
- Airport Management Models & Systems on an International Level
- Airport Legislation After Airline Deregulation
- Case Studies & Lessons Learned
- Key Take-aways

Course Program

Module 3 - Airport Master Planning

- Regulations of reference
- Master Planning Process
- Constitution of a Master Plan
- Case Studies

Module 4 - Aviation Forecasting

- Nature of aviation forecasts
- Need for forecasting
- Products of forecasts
- Methodologies for forecasting
- Procedures for preparing forecasts
- Case studies
- Importance of dealing with uncertainty
- Peak hour forecasts

Course Program

Module 5 - Site Selection

- Process of finding and evaluating sites for a new airport
- Case studies provide numerous examples of data from previous studies
- Classroom assignment to evaluate sites for a new airport in a new Middle East city located in the desert along the Gulf Coast

Module 6 - Airport Infrastructure Planning & Design

- Designing an appropriate airfield system at an airport
- Airport Reference Codes
- Technical components for the design of:
 - Runways
 - Taxiways
 - Aprons
 - Capacity Analysis

Course Program

Module 7 - Terminal Planning & Design

- Basic terminal concepts
- Multi-level terminals
- Elements of a passenger terminal, operations, capacity, new or upcoming technologies
- Level of service and sizing
- Lots of examples
- Appropriateness of the difference concepts

Module 8 - Ground Access, Parking, Terminal Roadways & Parking

- Ground access and circulation systems
- Rapid transit access
- Case studies
- Terminal circulation roadways
- Terminal curb roadways
- Parking
- People movers

Course Program

Module 9 - Capital Financing

- Use of funds
- Source of funds
- Government financing
- Municipal bonds
- Loans and syndicated loans
- Private sector bonds
- Financing process
- Key players

Module 10 - Maximizing Non-Aeronautical Revenue Streams

- Airport revenues .
- Revenue maximization
- Non-aeronautical revenues
- Terminal Concessions and trends
- Branding and “street pricing”
- Concession planning: the process
- Comparable airports analysis
- Case studies

Course Program

- **Module 11 - Airport Operations & Security Planning**
 - Airport security
 - Isolated aircraft parking position
 - Airside roads
 - Airside vulnerable areas
 - Airport security management systems
 - SeMS components



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