



Airport Master Planning

Professional Certificate Course

Delivery: Classroom

Duration: 5 days

Consistent with the objectives and orientations set out in the airport's Business Plan, the course emphasizes the opportunities available to enhance airport capacity in a cost-effective, timely, and sustainable manner. The course will focus on the challenges of balancing differing service level requirements arising from differing airline business models, changing passenger mix, specialized cargo handling, and other non-aeronautical requirements such as third-party commercial service providers. The course will further explain how best to engage interested parties to identify issues that may have consequences for achieving long-term value for investors in airport assets and customers.

Learning Objectives

Upon completing this course, participants will be able to:

- Understand the challenging economic, social and environmental issues that demand airport management plan and deliver best-in-class facilities and services
- Describe the relationship between airport strategic planning and optimal capacity management;
- Apply best practice traffic forecasting practices, including scenario analysis;
- Implement demand/capacity gap assessments for airline, passenger, and cargo traffic patterns
- Develop methods for identifying and challenging the viability of capacity solution concepts both at the system and sub-system levels, including process change and technological adaption
- Review AMP relationship to Capital Expenditure (CAPEX) programs
- Develop a team structure and prepare for Master Plan and CAPEX plan implementation
- Integrate course concepts through a case study exercise to demonstrate comprehension of the overall principles of Airport Master Plan and CAPEX program development

Target Audience

- Senior airport management who are to manage a master plan.
- Strategic development managers
- Airport business managers
- Airfield and terminal planners and project managers
- Civil engineering managers, city and town planners
- Environmental and sustainability managers



- National regulators

Course Content

- Master plan history and legal aspects (ICAO, IATA, and National Requirements)
- Strategic plan objectives and Service Level requirements
- Airport Traffic Forecasting
- Demand / Capacity “Gap” Assessment
- Design concept appraisals
- Multiple-Account Evaluation and decision-making criteria
- Stakeholder engagement strategy
- Capital and life-cycle programming
- Master Plan organization and skill capacity
- Airport Master Plan case study exercise