



ADVANCED AIRLINE NETWORK PLANNING AND ROUTE ANALYSIS TRAINING COURSE

14 - 18 DEC 2026

MUNICH

5100 € (PER PERSON)

REF: #AVI5032_80028



COURSE INTRODUCTION / OVERVIEW:

In the hyper-competitive global aviation industry, an airline's route network is its most critical asset and the primary driver of profitability. This intensive training course provides a comprehensive exploration of the principles and practices of commercial airline route planning and network analysis. It moves beyond theoretical concepts to deliver practical, data-driven strategies for designing, managing, and optimizing airline networks for sustainable success. Participants will delve into the intricate balance between market demand, operational constraints, fleet capabilities, and competitive pressures. Drawing on foundational principles from leading academics like Peter Belobaba, whose work in "The Global Airline Industry" has shaped modern aviation management, this program equips professionals with the analytical tools to make high-stakes network decisions. At BIG BEN Training Center, we have designed this course to empower attendees to build robust, resilient, and profitable route structures that can adapt to the dynamic nature of the air transport market, ensuring long-term strategic advantage. This course is the definitive guide for mastering the art and science of airline network strategy from A to Z.

TARGET AUDIENCE / THIS TRAINING COURSE IS SUITABLE FOR:

- Airline Network Planners and Route Analysts.
- Commercial and Corporate Strategy Managers.
- Revenue Management and Pricing Analysts.
- Fleet Planning and Aircraft Acquisition Specialists.
- Airline Schedule Planners.
- Airport Marketing and Air Service Development Managers.
- Aviation Consultants and Financial Analysts.
- Managers in Airline Operations and Ground Handling.
- Civil Aviation Authority and Ministry of Transport Officials.



TARGET SECTORS AND INDUSTRIES:

- Commercial Airlines (Legacy, Low-Cost, Regional, and Cargo Carriers).
- Airport Authorities and Operators.
- Aviation and Management Consulting Firms.
- Aircraft and Engine Manufacturing Companies.
- Governmental bodies including Civil Aviation Authorities and Ministries of Transport.
- Global Distribution Systems (GDS) and Travel Technology Companies.
- Financial Institutions with Aviation Investment Portfolios.

TARGET ORGANIZATIONS DEPARTMENTS:

- Network Planning and Strategy.
- Commercial and Sales Departments.
- Revenue Management and Pricing.
- Fleet Management and Planning.
- Scheduling and Operations Control.
- Corporate Planning and Development.
- Finance and Treasury.
- Airport Relations and Route Development.



COURSE OFFERINGS:

By the end of this course, the participants will have able to:

- Master the fundamentals of airline economics and key performance indicators.
- Conduct comprehensive market analysis and demand forecasting for new and existing routes.
- Design and evaluate different network structures, including hub-and-spoke and point-to-point models.
- Analyze route profitability by integrating cost, revenue, and operational data.
- Develop effective fleet assignment strategies to match aircraft capacity with market demand.
- Construct and optimize airline schedules considering operational and regulatory constraints.
- Understand the strategic implications of airline alliances and partnerships on network design.
- Assess competitive landscapes and formulate effective network responses to market changes.
- Integrate principles of revenue management into strategic network planning decisions.
- Evaluate the impact of future trends, including sustainability and new technologies, on network strategy.

COURSE METHODOLOGY:

The training methodology at BIG BEN Training Center is designed to be highly interactive, engaging, and directly applicable to the professional challenges faced by participants. This course rejects a purely lecture-based format in favor of a dynamic learning environment that blends expert instruction with hands-on application. A cornerstone of the program is the extensive use of real-world case studies, examining the network strategies of successful global airlines as well as analyzing notable failures to draw critical lessons. Participants will engage in collaborative group workshops and simulation exercises that challenge them to design a route network, analyze the profitability of a potential new route, and respond to a competitive threat. These activities foster teamwork and allow for the practical application of theoretical models. Interactive sessions, facilitated discussions, and Q&A segments with our expert instructors ensure that complex concepts are fully understood. Continuous feedback is provided throughout the course, enabling participants to refine their analytical skills and strategic thinking in a supportive and professional setting.



COURSE AGENDA (COURSE UNITS):

UNIT ONE FOUNDATIONS OF AIRLINE NETWORK STRATEGY

- Introduction to Airline Business Models.
- The Role of Network Planning in Airline Profitability.
- Key Performance Indicators (KPIs) in Aviation.
- Understanding Available Seat Miles (ASM) and Revenue Passenger Miles (RPM).
- The Evolution of Airline Networks.
- Regulatory Frameworks and Air Service Agreements.
- Market Structures and Competitive Environments.

UNIT TWO DEMAND FORECASTING AND ROUTE ECONOMICS

- Analyzing Origin and Destination (O&D) Data.
- Techniques for Air Travel Demand Forecasting.
- Understanding Route Profitability and Contribution Analysis.
- Direct and Indirect Operating Costs.
- Revenue Projections and Yield Management Basics.
- Break-Even Load Factor Calculation.
- Seasonality and Cyclicalities in Air Travel Demand.

UNIT THREE STRATEGIC NETWORK DESIGN AND DEVELOPMENT

- Hub-and-Spoke Network Design and Optimization.
- Point-to-Point Network Strategy and its Applications.
- Developing Hybrid Network Models.
- The Strategic Role of Airline Alliances and Codeshares.
- Network Connectivity and Schedule Synchronization.
- Airport Hub Selection and Development Criteria.
- Case Studies of Major Global Airline Networks.



UNIT FOUR FLEET ASSIGNMENT AND SCHEDULE OPTIMIZATION

- The Fleet Planning and Assignment Process.
- Matching Aircraft Capabilities to Route Characteristics.
- Optimizing Aircraft Utilization and Rotations.
- Fundamentals of Airline Schedule Development.
- IATA Worldwide Scheduling Guidelines (WSG).
- Airport Slot Allocation and Coordination.
- Managing Schedule Integrity and On-Time Performance.

UNIT FIVE ADVANCED TOPICS AND FUTURE OF NETWORK PLANNING

- Integrating Revenue Management with Network Strategy.
- Competitive Analysis and Game Theory in Route Planning.
- The Impact of Low-Cost Carriers on Network Design.
- Sustainability and Environmental Considerations in Network Planning.
- The Role of Data Analytics and AI in Modern Network Management.
- Impact of New Aircraft Technology (e.g., A321XLR) on Route Possibilities.
- Developing a Resilient and Adaptive Network Strategy.

FAQ:

QUALIFICATIONS REQUIRED FOR REGISTERING TO THIS COURSE?

There are no requirements.

HOW LONG IS EACH DAILY SESSION, AND WHAT IS THE TOTAL NUMBER OF TRAINING HOURS FOR THE COURSE?

This training course spans five days, with daily sessions ranging between 4 to 5 hours, including breaks and interactive activities, bringing the total duration to 20 - 25 training hours.



SOMETHING TO THINK ABOUT:

How might the rise of sustainable aviation fuels and carbon pricing fundamentally reshape long-haul airline network strategies in the next decade?

WHAT UNIQUE QUALITIES DOES THIS COURSE OFFER COMPARED TO OTHER COURSES?

This course distinguishes itself by adopting a holistic, strategic management perspective on network planning, rather than focusing narrowly on software-based technical execution. While many programs teach the "how," we concentrate on the "why," equipping participants with the critical thinking skills to make high-level strategic decisions that drive long-term profitability. Our curriculum is built around a rich tapestry of contemporary and historical case studies, allowing participants to dissect the successes and failures of real-world airline network strategies. This practical, problem-based learning approach ensures that the knowledge gained is not merely theoretical but immediately applicable. Furthermore, the course content deeply integrates network planning with other critical airline functions, such as revenue management, fleet acquisition, and corporate finance, providing a 360-degree view of its impact on the entire organization. The emphasis is on developing a strategic mindset that can anticipate market shifts, evaluate competitive threats, and build resilient, adaptive networks capable of thriving in the volatile aviation landscape. It is an executive-level briefing on the most crucial function within any airline.