



*Training Course:
Aspen HYSYS: Process Modeling MBA*

26 - 30 July 2026

Cairo (Egypt)

Holiday Inn & Suites Cairo Maadi, an IHG Hotel

Training Course: Aspen HYSYS: Process Modeling MBA

Training Course code: EN636 From: 26 - 30 July 2026 Venue: Cairo (Egypt) - Holiday Inn & Suites Cairo Maadi, an IHG Hotel Training Course Fees: 4410 € Euro

Introduction

Process simulation has become a strategic capability in the oil & gas and chemical industries, enabling organizations to optimize operations, reduce costs, and support high-level decision-making. Aspen HYSYS is one of the leading tools used for modeling, analyzing, and improving process systems.

This MBA-level program, designed by Global Horizon Training Center, combines technical process modeling expertise with business and strategic insights. It equips professionals not only to build and analyze process models using Aspen HYSYS, but also to translate simulation results into informed operational and investment decisions.

Course Objectives

By the end of this program, participants will be able to:

- Develop and analyze process models using Aspen HYSYS
- Apply thermodynamic principles and select appropriate property packages
- Simulate and optimize unit operations and full process flowsheets
- Interpret simulation outputs for business and operational decisions
- Evaluate process efficiency, costs, and performance
- Integrate simulation with financial and strategic analysis
- Support decision-making using data-driven insights
- Enhance operational excellence and value creation

Target Audience

This program is designed for:

- Process and Chemical Engineers
- Oil & Gas and Petrochemical Professionals
- Operations and Production Engineers
- Technical Managers and Decision-Makers
- Professionals transitioning into strategic or managerial roles
- Engineers seeking MBA-level technical-business integration

Outline

Day 1: Process Simulation and Business Context

- Role of process modeling in industrial strategy
- Overview of Aspen HYSYS and simulation workflow
- Fundamentals of thermodynamics in process modeling
- Introduction to process economics
- Linking technical models to business decisions

Day 2: Process Modeling and Unit Operations

- Building simulation models in Aspen HYSYS
- Streams, components, and property packages
- Modeling key unit operations separators, exchangers, compressors
- Model validation and troubleshooting
- Operational data integration

Day 3: Advanced Simulation and Optimization

- Distillation and reactor modeling
- Process optimization techniques
- Sensitivity and scenario analysis
- Energy efficiency and process improvement
- Performance benchmarking

Day 4: Economic Evaluation and Decision Support

- Linking simulation results to cost analysis
- CAPEX and OPEX estimation from models
- Financial evaluation NPV, IRR concepts
- Risk and uncertainty analysis
- Strategic decision-making frameworks

Day 5: Integration, Strategy, and Case Studies

- Integrating simulation with business strategy
- Digital transformation and advanced analytics
- Real-world industrial case studies
- Best practices in process optimization
- Final project and executive-level insights

Registration form on the Training Course: Aspen HYSYS: Process Modeling MBA

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