

## Aspen Plus □ Intermediate Process Modeling Essentials

*Istanbul (Turkey)*

*24 - 28 May 2026*

UK Training

# PARTNER



## Aspen Plus □ Intermediate Process Modeling Essentials

Code: OC32 From: 24 - 28 May 2026 City: Istanbul (Turkey) Fees: 4900 Pound

### Introduction

The Aspen Plus - Intermediate Process Modeling Essentials course is a focused three-day training program designed to enhance participants' practical skills in process modeling within a compact and efficient timeframe. The course bridges the gap between basic process modeling and advanced simulation techniques, concentrating on intermediate-level applications commonly used in chemical engineering practice.

Aspen Plus is a widely recognized process simulation software used to model, simulate, and optimize chemical processes. This course provides participants with a solid intermediate understanding of Aspen Plus capabilities, enabling them to build, analyze, and optimize more complex process models. Through a combination of conceptual explanations, hands-on exercises, and applied examples, participants gain practical skills in intermediate digital process modeling and performance improvement.

### Course Objectives

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

- Understand what Aspen Plus is and how it supports process modeling in chemical engineering.
- Navigate the Aspen Plus interface and efficiently develop intermediate-level process models.
- Model and simulate key unit operations, including reactors, distillation columns, and heat exchangers.
- Apply intermediate modeling techniques for heat integration and energy optimization.
- Perform basic process optimization and sensitivity analysis.
- Identify and resolve common issues encountered in intermediate Aspen Plus simulations.
- Apply Aspen Plus models to real-world engineering problems to improve process performance.

### Course Outlines

#### Day 1: Aspen Plus Fundamentals and Intermediate Process Modeling

- Overview of Aspen Plus and its role in chemical process modeling.
- Understanding intermediate process modeling concepts and applications.
- Navigating the Aspen Plus user interface, tools, and workflows.
- Building and configuring intermediate-level process models.
- Modeling best practices and workflow management.

#### Day 2: Unit Operations Modeling and Heat Integration

- Modeling essential unit operations, including:
  - Reactors.
  - Distillation columns.
  - Heat exchangers.
- Configuring and customizing unit operation models.

- Introduction to heat integration concepts and energy optimization strategies.
- Designing heat exchanger networks and improving energy efficiency using Aspen Plus.
- Troubleshooting common unit operation modeling challenges.

### Day 3: Process Optimization, Sensitivity Analysis, and Applications

- Introduction to process optimization techniques in Aspen Plus.
- Setting up optimization cases and evaluating simulation outcomes.
- Conducting sensitivity analysis to assess the impact of key process parameters.
- Applying intermediate process models to real-world engineering scenarios.
- Practical case studies demonstrating intermediate digital process modeling.

### Why Attend This Course: Wins & Losses!

- Gain a strong intermediate understanding of Aspen Plus and its practical applications.
- Develop hands-on skills to model and analyze complex chemical processes efficiently.
- Learn essential techniques for heat integration, energy optimization, and sensitivity analysis.
- Build confidence in applying intermediate models to real engineering challenges.
- Receive expert guidance on effective and efficient Aspen Plus usage.

### Conclusion

The Aspen Plus - Intermediate Process Modeling Essentials course delivers a focused and practical learning experience for professionals seeking to enhance their process simulation capabilities. Designed for chemical engineers, researchers, and technical specialists, the course provides high-impact training in intermediate Aspen Plus modeling techniques.

By mastering essential intermediate tools and applying them to practical scenarios, participants will be better equipped to simulate, troubleshoot, and optimize chemical processes in real-world engineering and industrial environments.



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