

Aspen Plus - Intermediate Process Modelling

Berlin (Germany)

30 September - 4 October 2024

UK Training

PARTNER



Aspen Plus - Intermediate Process Modelling

Code: OC28 From: 30 September - 4 October 2024 City: Berlin (Germany) Fees: 4700 Pound

Introduction

The Aspen Plus - Intermediate Process Modeling Course is a comprehensive program designed to provide participants with intermediate-level knowledge and practical skills in process modeling using the Aspen Plus software. Aspen Plus is a widely used process simulation tool that enables engineers and researchers to model and optimize chemical processes. This course is specifically tailored for individuals who already have a basic understanding of Aspen Plus and want to enhance their modeling capabilities to tackle more complex process scenarios. Through hands-on exercises, case studies, and interactive sessions, participants will gain proficiency in building, simulating, and analyzing process models using Aspen Plus.

Objectives

- Familiarize participants with the Aspen Plus software and its capabilities for process modeling.
- Enhance understanding of unit operations and their representation in Aspen Plus.
- Develop skills in building and configuring complex process models using Aspen Plus.
- Learn advanced modeling techniques, such as heat integration, optimization, and sensitivity analysis.
- Gain proficiency in analyzing process performance, troubleshooting, and optimizing process operations.
- Apply Aspen Plus to solve real-world process engineering problems and make informed decisions.
- Acquire best practices for effective utilization of Aspen Plus in process modeling and optimization.

Course Outline

Day 1

Introduction to Aspen Plus and Process Modeling Fundamentals

- Overview of Aspen Plus and its features for process modeling.
- Review of process modeling fundamentals.
- Introduction to Aspen Plus user interface and navigation.
- Building and configuring basic process models in Aspen Plus.

Day 2

Advanced Unit Operations Modeling

- Modeling distillation columns, reactors, heat exchangers, and other advanced unit operations.
- Configuring complex unit operations and customizing models in Aspen Plus.
- Troubleshooting common issues in unit operation modeling.

Day 3

Heat Integration and Energy Optimization



- Introduction to heat integration and pinch analysis concepts.
- Heat exchanger network HEN design and optimization using Aspen Plus.
- Energy optimization strategies and techniques in Aspen Plus.

Day 4

Process Optimization and Sensitivity Analysis

- Introduction to process optimization techniques in Aspen Plus.
- Configuring optimization cases and defining objective functions.
- Performing sensitivity analysis and evaluating parameter effects on process performance.

Day 5

Advanced Topics and Case Studies

- Modeling and analyzing non-ideal behavior and phase equilibria.
- Handling complex reaction kinetics and reactor modeling.
- Case studies and practical exercises applying Aspen Plus to real-world process engineering problems.



Blackbird Training Cities

Europe



Zurich (Switzerland)



Stockholm (Sweden)



Lyon (France)



Copenhagen (Denmark)



Bordeaux (France)



Annecy (France)



Oslo (Norway)



Edinburgh (UK)



Glasgow (Scotland)



Malaga (Spain)



London (UK)



Istanbul (Turkey)



Amsterdam (Netherlands)
(Switzerland)



Düsseldorf (Germany)



Paris (France)



Barcelona (Spain)



Munich (Germany)



Geneva



Prague (Czech)



Vienna (Austria)



Rome (Italy)



Brussels (Belgium)



Madrid (Spain)



Berlin (Germany)



Lisbon (Portugal)



Manchester (UK)



Milan (Italy)

USA & Canada



Los Angeles (USA)



Florida (USA)



Online



Boston (USA)



Washington (USA)



Miami(USA)



New York (USA)



Toronto (Canada)



Blackbird Training Cities

Asia



Baku (Azerbaijan)



Maldives (Maldives)



Manila (Philippines)



Bali (Indonesia)



Bangkok (Tailand)



Beijing (China)



Moscow (Russia)
(Malaysia)



Singapore (Singapore)



Sydney (Australia)



Tokyo (Japan)



Dubai (UAE)



Kuala Lumpur



Jakarta (Indonesia)

Africa



Kigali (Rwanda)



Cape Town (South Africa)



Accra (Ghana)



Lagos (Nigeria)



Marrakesh (Marocco)



Nairobi (Kenya)



Cairo (Egypt)



Sharm El-Sheikh (Egypt)



Casablanca (Morocco)



Tunis (Tunisia)



Blackbird Training Clients



UK Training
PARTNER



Blackbird Training Categories

Management & Admin

Professional Skills
Finance, Accounting, Budgeting
Media & Public Relations
Project Management
Human Resources
Audit & Quality Assurance
Marketing, Sales, Customer Service
Secretary & Admin
Supply Chain & Logistics
Management & Leadership
Agile and Refinement

Technical Courses

Hospital Management
Public Sector
Special Workshops
Oil & Gas Engineering
Telecom Engineering
IT & IT Engineering
Health & Safety
Law and Contract Management
Customs & Safety
Aviation
C-Suite Training



International House 185 Tower Bridge
Road London SE1 2UF United Kingdom



+44 7401 1773 35
+44 7480 775526



training@blackbird-training.com



www.blackbird-training.com

UK Training

PARTNER

