



# Training Course Information

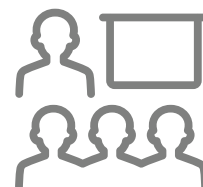
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## A Professional Training organisation

To maximise your investment in AspenTech and BluESP Solutions we offer an array of training courses that will increase your understanding of the products you use, by demonstrating real world applications that matter to you and your business.

- Public Training in a traditional classroom setting.
- Private Training conducted on-site or at BluESP's training studio for you and your team.
- Custom Training - BluESP will work directly with you to formulate the course content to meet your specific business needs.
- E-Learning: on demand / accessible within products / self-pace.



## 1

# Process Engineering

## EAP101: Aspen Plus Process Modeling

Learn steady-state process simulation, process analysis and optimization using Aspen Plus (3 Days, Basic).

**Prerequisites:** None

**Learning Outcomes:**

- ☒ Build flowsheet models and summarize basic unit operations.
- ☒ Define facilities, materials, utilities and chemical reactions.
- ☒ Summarize physical properties.

## EAP121: Building MS Excel User Interfaces

Learn how to embed and link MS Excel using Aspen Plus (1 Day, Basic).

**Prerequisites:** None

**Learning Outcomes:**

- ☒ Integrate Aspen Simulation Workbook with add in tools in MS Excel®.
- ☒ Use features of the Aspen Simulation Workbook and publish and deploy models.
- ☒ Link models to plant process data.

## EHY101: Aspen HYSYS Process Modeling

Learn how to build and troubleshoot flowsheet simulation models using Aspen HYSYS (3 Days, Basic).

**Prerequisites:** None

**Learning Outcomes:**

- ☒ Build flowsheet models and summarize basic unit operations.
- ☒ Define facilities, materials, utilities and chemical reactions.
- ☒ Summarize physical properties.

## EHY202: Aspen HYSYS Advanced Process Modeling Topics

Learn how to apply advanced modeling techniques to enhance flowsheets (2 Days, Intermediate).

**Prerequisites:** Attended EHY101

**Learning Outcomes:**

- ☒ Build a plant model and use LNG Exchanger operation to simulate multi-pass heat exchangers.
- ☒ Simulate vessel depressurization and complex relief scenarios.
- ☒ Define reaction sets and utilize different types of reactor models.

## EHY223: Aspen HYSYS Dynamics: Introduction to Dynamic Modeling

Build dynamic models and discover shortcuts using Aspen HYSYS Dynamics (3 Days, Intermediate).

**Prerequisites:** Attended EHY121

**Learning Outcomes:**

- ☒ Create dynamic simulations to model real equipment.
- ☒ Use PID controllers and Strip Charts.
- ☒ Use pipeline modeling options in Aspen HYSYS.

**“Gain the practical skills  
and knowledg needed  
for Operational Excellence”**

## 2

## Advanced Process Control

**APC100: AspenOne Advanced Process Control – Installation and Configuration**

Learn how to deploy the Advanced Control Product suite (2 Days, Basic).

**Prerequisites:** None

**Learning Outcomes:**

- ☒ Access various functions of Production Control Web Server (PCWS) and Install the AspenWatch Server.
- ☒ Migrate APC Software.

**APC101: Intro to Aspen DMCplus for APC Engineers**

Learn how Aspen DMCplus and Aspen DMC3 models are developed through step testing (5 Days, Basic).

**Prerequisites:** None

**Learning Outcomes:**

- ☒ Identify characteristics of linear versus nonlinear, dynamic, and empirical models.
- ☒ Use DMCplus and DMC3 Models.



Book Online

WWW



## 3

# Manufacturing Execution Systems

## MES101: Aspen InfoPlus.21 Real Time Information Management Foundation

Learn how to deploy the Advanced Control Product suite (5 Days, Basic).

**Prerequisites:** None

**Learning Outcomes:**

- ☒ Summarize Aspen InfoPlus.21 features and capabilities to effectively monitor critical plant data.
- ☒ Implement and configure an Aspen InfoPlus.21 system.

## MES121: AspenOne Process Explorer: Using and Configuring

Learn how to use aspenONE Process Explorer interface to trend process data (3 days, Basic).

**Prerequisites:** None

**Learning Outcomes:**

- ☒ Summarize features and capability of aspenOne Process Explorer.
- ☒ Customize trend plots to suit your application.
- ☒ Specify plots based on statistical analysis of process data.

## MES122: Aspen Process Explorer: Using and Configuring

Learn how to view data from your process using Aspen Process Explorer (1 Day, Basic).

**Prerequisites:** None

**Learning Outcomes:**

- ☒ Customize trend plots to suit your application.
- ☒ Specify plots based on statistical analysis of process data.
- ☒ Integrate real-time or historic data from your process into Windows desktop programs.

## MES123: Aspen Calc: Using and Configuring

Learn how to use Aspen InfoPlus.21 without programming (1.5 Days, Basic).

**Prerequisites:** Attended MES122

**Learning Outcomes:**

- ☒ Build simple and complex calculations that use formulas, Excel, and VB Script.
- ☒ Create ad-hoc and share calculations.
- ☒ Create and view reports.

## MES1200: Calculations and Data Analysis for Engineers

Learn how to make decisions based on the process data stored using Aspen InfoPlus.21 (3 Days, Basic).

**Prerequisites:** Attended MES122

**Learning Outcomes:**

- ☒ Build simple and complex calculations integrated with Aspen InfoPlus.21 without programming.
- ☒ Analyze historic data.
- ☒ Configure key performance indicator (KPIs) to monitor unit performance and retrieve plant data into Microsoft Excel.

## MES201: Aspen SQLplus for Aspen InfoPlus.21: Using and Configuring for Poser Users

Learn how to write and run SQL queries using Aspen InfoPlus.21 data (5 Days, Intermediate).

**Prerequisites:** Attended MES101

**Learning Outcomes:**

- ☒ Use intermediate to advanced SQL statements to view or manipulate data.
- ☒ Integrate real-time or historic data.
- ☒ Create customized reports.

## 4

## Planning & Scheduling

### RPA101: Aspen PIMS: Introduction to Refinery Planning

Learn to build refinery planning models in PIMS to generate optimum plans (5 Days, Basic).

**Prerequisites:** None

**Learning Outcomes:**

- ☒ Develop Linear Programming (LP) structure.
- ☒ Use data tables, case stacking, and product blending required to build and maintain a model.
- ☒ Use PIMS Assay Management, PIMS Miscellaneous Tables, and Aspen PIMS Analytics.

### RPA102: Introduction to Aspen PIMS for Petrochemical Planning

Learn to build petrochemical planning models in PIMS to generate optimum plans (3.5 Days, Basic).

**Prerequisites:** None

**Learning Outcomes:**

- ☒ Build petrochemical planning models to generate optimum plans.
- ☒ Develop Linear Programming (LP) structure.
- ☒ Use structures for developing typical petrochemical process units.

### RPA201: Aspen PIMS: Solving Refinery Planning Problems

Learn how to model and interpret sophisticated plant relationships using Aspen PIMS (5 Days, Intermediate).

**Prerequisites:** Attended RPA101

**Learning Outcomes:**

- ☒ Implement real-world plant into your Aspen PIMS planning model.
- ☒ Identify & resolve problems that may hinder a planner's productivity.

[Perform common economic evaluations.](#)



## 5

## Asset Performance Management

**Are you looking to avoid equipment failure and find out days or weeks ahead when and why an asset will fail?**

Aspen MTell is a condition monitoring solution that uses automated Machine Learning to stop equipment from breaking down, makes them last longer, reduces maintenance costs, and increases the net product output of any process. Attend APR101 class to learn how to implement Aspen MTell solution that helps to create a world that doesn't break down.

**Are you a reliability engineer looking to predict future performance of your asset and quantify how events and uncertainties impact overall asset availability?**

Aspen Fidelis Reliability is a Reliability, Availability and Maintainability tool that allows you to simulate the lifecycle availability of any system and predict its performance due to changes in design, capacity, operations, maintenance, logistics, market dynamics and even weather. Attend AFR101 class to learn the fundamentals of Reliability, Availability and Maintainability and how to utilize Aspen Fidelis Reliability to evaluate these key asset performance indicators.

**APR101: Aspen Mtell Previs: Deploy & Use**

Learn how to stop machines from breaking down and to last longer using Aspen Mtell Previs (3 Days, Basic).

**Prerequisites:** None

**Learning Outcomes:**

- ☒ Perform conditioning and analysis of time-series sensor data.
- ☒ Build and deploy advanced condition monitoring strategies.
- ☒ Implement Operator Maintenance Advisory capabilities enabling operators to track open work orders.

**PMV101: Optimize Plant Performance using multivariate data analysis**

Learn how to use Aspen ProMV to improve understanding of key process relationships (2 Days, Basic).

**Prerequisites:** None

**Learning Outcomes:**

- ☒ Use multi-block modelling to model your process.
- ☒ Identify key contributors to poor process performance.
- ☒ Optimize process performance.

# Contact us

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