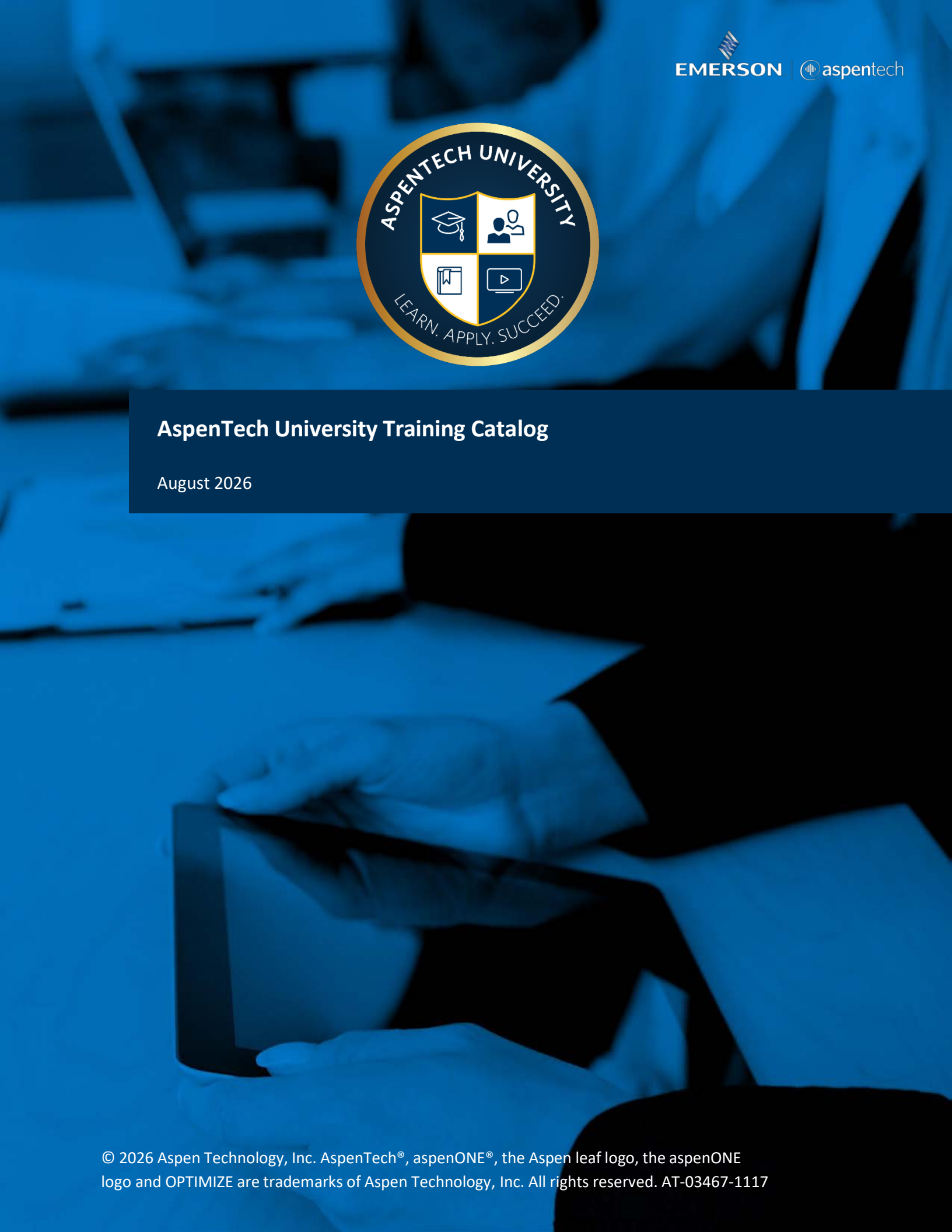

AspenTech University Training Catalog

August 2026

Contents

Questions about AspenTech University Training

Please email us at aspentech.training@emerson.com or call your local AspenTech Regional Service Center (see link below) and follow the automated attendant to speak with a Training Coordinator or a Customer Care Specialist.

https://esupport.aspentech.com/apex/contact_phone

To register for a Training

Go to AspenTech University.

Advanced Process Control

APC105 - Model and Build Aspen DMC3 controllers using Aspen DMC3 Builder

Learn how to use an Aspen DMC3 Model Builder to identify a controller model before implementing the controller online and gain increased effectiveness in basic troubleshooting of Aspen DMCplus and Aspen DMC3 controllers.
Pre-requisites: None.
Duration: 5 day(s), also available in FlexClass format.

APC120 - Introduction to aspenONE Advanced Process Control - Operating and Maintaining Controllers Online

Build and interact with controllers using Aspen Production Control Web Server. You will become familiar with modeling test methods and procedures and learn how to troubleshoot a DMCplus controller.
Pre-requisites: None.
Duration: 2 day(s)

APC125 - Introduction to Aspen DMC3 Builder - Modeling and Building Controllers for Industrial Processes

Learn the characteristics of linear, dynamic, and empirical models and use Aspen DMC3 Builder and decide whether to use FIR or SubSpace Modeling.
Pre-requisites: Attended APC120 Introduction to aspenONE Advanced Process Control - Operating and Maintaining Controllers Online.
Duration: 3 day(s)

APC170 - Introduction to Aspen Inferential Qualities - Developing and Deploying Inferential Soft Sensors for Industrial Processes

Learn how to use Aspen IQ model to develop linear steady state and dynamic inferential predictors and how to deploy these applications.
Pre-requisites: Attended APC105: Model and Build Aspen DMC3 controllers using Aspen DMC3 Builder.
Duration: 3 day(s)

APC210 - Aspen Watch Performance Monitor - Real Time Monitoring and Maintaining Controllers Online

Learn how to use Aspen Watch KPI to analyze and troubleshoot controller performance, and how to detect and repair model mismatch in Aspen DMCplus controllers. Learn to sustain the benefits achieved by your control applications.
Pre-requisites: Attended APC120 Introduction to aspenONE Advanced Process Control: Operating and Maintaining Controllers Online
Duration: 3 day(s)

APC250 - Aspen DMC3 - APC Calibrate and Aspen Adaptive Modeling

Examine the fundamentals of Calibrate mode for APC applications. Examine the methodology of implementing new APC applications using Calibrate and Adaptive Modeling/Control. Commission the new model developed with Calibrate and Adaptive Modeling for both new and existing APC applications.
Pre-requisites: Attended APC105: Model and Build Aspen DMC3 controllers using Aspen DMC3 Builder.
Duration: 3 day(s)

APC500 – Introduction to Regulatory Control

Learn about the Distributed Control System (DCS) concepts that relate to an AspenTech DMC3 controller. Understand the basics of Proportional-Integral-Derivative (PID) regulatory controls and AspenWatch, AspenTech's PID control monitoring and loop analysis solution.
Pre-requisites: None.
Duration: 0.5 day(s)

Aspen Dynamic Optimization

GDOT 101: Fundamentals of Aspen Generic Dynamic Optimization Technology

Learn the fundamentals of Aspen GDOT that includes Open Equation (OE) technology, dynamic optimization and typical GDOT applications. Learn how to estimate GDOT benefits, align GDOT with planning and scheduling work processes along with Aspen GDOT implementation (offline and online) and best practices for sustaining benefits.
Pre-requisites: None.
Duration: 3 day(s)

Asset Performance Management

AFR101 - Introduction to Aspen Fidelis Reliability

Learn how you can use Aspen Fidelis Reliability to generate accurate predictions of future performance and monitor key indicators such as availability, utilization, system shutdowns, logistics, and resource usage.
Prerequisites: None.
Duration: 3 day(s)

MPM101 - Predict and Prevent Asset Failure using Aspen Mtell

Learn how to implement the Aspen Mtell project. Understand System Architecture and Installation procedure, technical reviews for defining assets and sensor groups, setting up security and connecting to adapters, importing data, building Machine Learning Agent, setting up alerts, and using Mtell View to monitor alerts.
This course includes the content from MPM111, MPM121, and MPM131 to give the total Mtell Solution experience.
Prerequisites: None.
Duration: 5 day(s)

MPM111 - Deploying Aspen Mtell to a production environment

Learn to install and configure Aspen Mtell, SQL Database, and the necessary EAM and Historian Connections. Use Mtell System Manager to connect to various data sources, configure the services required to run Machine Learning Agents, and setup security and notifications for Agent alerts.
Pre-requisites: None.
Duration: 1 day(s)

MPM121 - Building Machine Learning Agents using Aspen Mtell

Learn the Aspen Mtell implementation methodology to create Machine Learning Agents for a single asset. Practice automatic Agent tuning for the best accuracy and earliest detection of excursions from normal behavior. Utilize past failure data and the precise patterns that match degrading conditions that lead to failure to build failure Agents.
Pre-requisites: None.
Duration: 3 day(s)

MPM122 - Monitor Equipment Health with Asset Templates in Aspen Mtell Studio

Learn how to navigate and use Aspen Mtell Builder, understand the purpose of an Asset Template and fill one out, modify existing Asset Templates by adding new sensor roles and calculated sensors, create condition-based monitoring and rule agents, define Key Performance Indicators (KPIs) for equipment health monitoring, and view live agents and triage alerts using Aspen Mtell Alert Manager.
Pre-requisites: None.
Duration: 3 day(s)

MPM126 - Monitor Equipment Health in Aspen Mtell Studio
Learn how asset templates can help you quickly unlock insights into your assets' health through Key Performance Indicators (KPIs) and Failure Modes. Use Aspen Mtell Alert Manager to quickly identify likely root causes of equipment issues and mitigate risks.
Pre-requisites: None.
Duration: 1 day(s)

MPM127 - Build Agents, Asset Templates, and KPIs in Aspen Mtell Studio
Learn how to navigate and use Aspen Mtell Builder, understand the purpose of an Asset Template and fill one out, modify existing Asset Templates by adding new sensor roles and calculated sensors, create condition-based monitoring and rule agents, define Key Performance Indicators (KPIs) for equipment health monitoring, and view live agents and triage alerts using Aspen Mtell Alert Manager.
Pre-requisites: MPM126: Monitor Equipment Health in Aspen Mtell Studio.
Duration: 2 day(s)

MPM131 - Managing Alerts using Aspen Mtell Alert Manager
Learn to manage the lifecycle of alerts with Aspen Mtell real-time monitoring solution. Aspen Mtell View is a web application that helps users to manage alerts and monitor their assets online.
Pre-requisites: None.
Duration: 1 day(s)

MPM221 - Bring Your Own Model into Aspen Mtell
Learn how to implement custom agents in Aspen Mtell. Understand why integrating custom agents into Mtell are desired, explore use cases of when custom agents might be used, and learn how to configure and create a few simple custom agents. Learn how to manage the deployed custom agents in Aspen Mtell Alert Manager.
Pre-requisites: ACU-Mtell01: Aspen Mtell User Certification.
Duration: 1 day(s)

MVA101 - Introduction to multivariate analysis in spectroscopy using Aspen Unscrambler
Learn how to analyze problems that involve many variables at once using multivariate analysis tools through Aspen Unscrambler. Understand how to perform exploratory analysis using Principal Component Analysis (PCA), data processing/transformations, and Partial Least Squares Regression (PLSR).
Pre-requisites: None.
Duration: 2 day(s)

PMV101 - Optimize Plant Performance using multivariate data analysis
Learn how to use Aspen ProMV on your historical process data to improve understanding of key process relationships.
Pre-requisites: None
Duration: 2 day(s)

PMV121 - Optimize Batch Process Performance
Get actionable insights from your industrial batch data and use that information for process optimization and troubleshooting. Learn how to relate time-varying process data, raw material properties and initial conditions to final product quality and productivity.
Pre-requisites: Attended PMV101: Optimize Plant Performance using multivariate data analysis.
Duration: 1 day(s)

Industrial Data Fabric

INM101 – AspenTech Inmation: System Administration
Learn about the features and functionality of the AspenTech Inmation backend and frontend applications. Learn how to install and configure the system; connect to different data sources and servers; access and display both Realtime and Historical data; and connect to the system through outside interfaces. Learn about the Lua Scripting engine and the flexibility it offers to customize the system to your needs.
Pre-requisites: None.
Duration: 3 day(s)

INM121 – AspenTech Inmation: Using the AspenTech Inmation IP.21
Understand the history of the development of this connectivity and the recommended System Architecture. Learn how to prepare Aspen InfoPlus.21 for replication, how to install and configure the AspenTech Inmation IP.21 Server Service, and how to connect to the Aspen InfoPlus.21 Server and receive real-time data through replication. Use the History Transporter to “backfill” history and understand basic troubleshooting techniques.
Pre-requisites: None.
Duration: 1 day(s)

INMW101 – AspenTech Inmation: WebStudio Basic
Learn about AspenTech Inmation WebStudio, including its interface and core functionalities; how to compile interactive dashboards to visualize data in a web browser; how to configure and style widgets for various use cases; how to save and manage compilations within the system; develop an index page with simple configurations and interactions between widgets.
Pre-requisites: None.
Duration: 2 day(s)

Industry Domain Training

EEE101 – Develop Cost Estimates for Capital Projects
Learn how to create and build detailed project estimates using Aspen Capital Cost Estimator and how to use the Aspen Capital Cost Estimator system more effectively, tailoring it to specific project estimates.
Pre-requisites: None.
Duration: 4 day(s), also available in FlexClass format

EEE102 - Use Cost Estimation Tool for Process Simulations
Learn to develop an economic evaluation and proposed design using Aspen Process Economic Analyzer.
Pre-requisites: None.
Duration: 3 day(s)

EEE103 - Creating and Interpreting Project Cost Estimates for Small Capital Projects
Learn how to develop in-plant design, estimate and schedule using Aspen In-Plant Cost Estimator. Reduce estimation variability by adopting a consistent methodology.
Pre-requisites: None.
Duration: 3 day(s)

EEE201 - Aspen Capital Cost Estimator: Advanced Topics
Learn advanced topics for creating and building detailed project estimates using Aspen Capital Cost Estimator (ACCE). Learn how to use the Aspen Capital Cost Estimator more effectively, tailoring it to specific project estimates.
Pre-requisites: Attended EEE101: Develop Cost Estimates for Capital Projects.
Duration: 5 day(s)

ENG101 – Fundamentals of Design and Rating of Shell & Tube Heat Exchangers
Learn fundamentals of heat exchanger design and rating with real world examples, and about process data required for heat exchanger design and analysis.
Pre-requisites: None.
Duration: 0.5 day(s)

ENG102 – Fundamentals of Pressure Relief Analysis, Sizing and Selection for Industrial Applications
Learn about the key elements for successful PSV design and rating, develop the skills and techniques required to model pressure relief devices in the Safety Analysis Environment, define different scenario types for pressure relief devices, and learn how to generate PSV Datasheets for reporting purposes.
Pre-requisites: None.
Duration: 0.5 day(s)

ENG104 - Fundamentals of Distillation Design & Synthesis
Understand how to reduce process design time by using advanced features of RadFrac. Learn how to perform Tray Sizing/Rating and Packed Sizing/Rating calculations. Use column analysis tools to optimize the feed location and number of stages and improve energy utilization. Learn how to improve distillation model stability and accuracy.
Pre-requisites: Engineers with experience of simulating distillation processes.
Duration: 0.5 day(s)

ENG105 - Increase Process System Reliability with Aspen Fidelis
Understand the workflow and basic components of an AFR model. Understand your plant model in terms of plant performance and unplanned equipment failures and how to make improvements. Learn how to use plant data to generate results and enable informed, defensible, decisions on capital asset management.
Pre-requisites: Engineers working in Capital Projects and focused on System Reliability.
Duration: 1 day(s)

ENG107 - Maximize Process System Reliability with Aspen Fidelis
Become familiar with Systems Modeling, general Reliability and Maintenance principles and practices and understand how they are incorporated in Aspen Fidelis.
Pre-requisites: Engineers working in Capital Projects and focused on System Reliability.
Duration: 0.5 day(s)

ENG108 - Fundamentals of Process Simulation for Beginners
Gain the practical skills and knowledge to begin modeling new and existing processes. Learn some practical techniques for building and troubleshooting flowsheet simulations.
Pre-requisites: Background in chemical engineering or industrial chemistry.
Duration: 0.5 day(s)

Licensing Installation and Integration

SLM101 - Aspen Software License Management and Deployment
Obtain a good working knowledge of the installation and configuration process. Develop an understanding of the system requirements. Reduce installation time. Improve user experience.
Pre-requisites: None.
Duration: 2 day(s)

Manufacturing Execution Systems

AUM101 - Introduction to Aspen Unified Movements and its Integration with AURA

This training course provides systematic training for the Aspen Unified Movements (AUM) product software respective of the Daily Workflow Tasks typically performed by Plant and Tank Operators, which focuses on monitoring Tank Inventories and managing Material Movement Flows throughout the Movement Lifecycle starting from the scheduled state and progressing through the activation and accrual states into the completed state.
Pre-requisites: AURA101 - Introduction to Aspen Unified Reconciliation and Accounting (AURA).
Duration: 2 day(s)

AURA101 - Introduction to Aspen Unified Reconciliation and Accounting (AURA)

This course provides systematic training in Aspen Unified Reconciliation and Accounting (AURA) for performing typical daily tasks of Yield Accountants and analyzing plant performance.
Pre-requisites: This course is recommended for Yield Accountants with knowledge of the Yield Accounting business process at their plant (Refineries, Olefins, Gas to Liquid etc.,). Prior experience in Material Balancing or a basic understanding of plant operations is preferred.
Duration: 3 day(s)

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

Learn how to implement and configure an Aspen InfoPlus.21 system including database security, data back up, and data transfer from DCS/PLC. Learn how to supervise, maintain, and troubleshoot an Aspen InfoPlus.21 system
Pre-requisites: None.
Duration: 5 day(s), also available in FlexClass format.

MES121 - Process Data Analysis Using aspenONE Process Explorer®

View data coming from your process using aspenONE Process Explorer. Learn to Customize the appearance of trend plots to suit your application.
Pre-requisites: None.
Duration: 3 day(s)

MES122 - Aspen Process Explorer: Using and Configuring

Learn how to view data from your process using one of AspenTech's graphic user interfaces. Learn to customize the appearance of trend plots and specify plots based on statistical analysis of process data (aggregates).
Pre-requisites: None.
Duration: 1 day(s)

MES123 - Aspen Calc: Using and Configuring

Learn how to create calculations integrated with Aspen InfoPlus.21 without the need for programming languages. Learn how to create Ad Hoc and Shared calculations.
Pre-requisites: Attended MES122 Aspen Process Explorer: Using and Configuring.
Duration: 2 day(s)

MES171 - Aspen Production Record Manager

Use the Reporting tools of Aspen Production Record Manager to examine data within Aspen InfoPlus.21. Learn how to produce batch reports in Microsoft Excel and batch plots in Aspen Process Explorer.
Pre-requisites: Attended MES122 Using and Configuring Aspen Process Explorer) would be beneficial.
Duration: 1 day(s)

MES201 - Aspen SQLplus for Aspen InfoPlus.21
Learn how to write and execute SQL queries to maintain, view, or manipulate Aspen InfoPlus.21 data and how to integrate data from Aspen InfoPlus.21 with other data sources. Configure versatile reports using Aspen SQLplus Reporting Tool.
Pre-requisites: Attended MES101 Aspen InfoPlus.21 Real Time Information Management Foundation.
Duration: 5 day(s)

MES205 - Aspen InfoPlus.21: System Administration
Learn the best practices for performing an Aspen InfoPlus.21 system upgrade efficiently, optimize your network and firewall for performance, security, and reliability. Automatically synchronize your Aspen InfoPlus.21 database and DCS systems, how to add additional fields safely and easily to Aspen InfoPlus.21 record structures.
Pre-requisites: Attended MES101 Aspen InfoPlus.21: Real Time Information Management Foundation.
Duration: 2 day(s)

MES231 - Aspen Real-Time SPC: Using and Configuring
Learn to use Aspen Real-time Statistical Process Control Analyzer to enable real-time quality control including monitoring and reporting on variables that influence product quality. Identify potentially troublesome process trends at an early stage before they compromise product quality.
Pre-requisites: Attended MES101 Aspen InfoPlus.21: Real Time Information Management Foundation or MES122 Aspen Process Explorer: Using and Configuring.
Duration: 2 day(s)

MES235 - Aspen Real-Time SPC: Using and Configuring in aspenONE Process Explorer
Use the Statistical Process Control (SPC) tools provided by aspenONE Process Explorer to monitor and improve process quality, as well as reduce manufacturing costs. Create and modify Aspen InfoPlus.21 records that are necessary to support the aspenONE Process Explorer SPC product.
Pre-requisites: Attended MES101 Aspen InfoPlus.21: Real Time Information Management Foundation or MES121 aspenONE Process Explorer: Using and Configuring.
Duration: 2 day(s)

MES271 - Aspen Production Record Manager: Configuring the Batch Area and Feed Application
Explain the principles, terminology, and architecture of Aspen Production Record Manager. Learn how to prepare and configure a Batch system and how to populate a Batch database, and how to create a Golden Batch Profile and apply it to the current process. View Batch SPC plots. Configure automated reports.
Pre-requisites: Attended MES171: Retrieving Batch Data Using the Reporting Tools.
Duration: 2 day(s)

MES362 - Aspen Production Execution Manager: Configuration Concepts and Administration
Learn the concepts and architecture of Aspen Production Execution Manager and learn about the Manufacturing Operations and Control module. Learn about developing APEM applications based on the General Manufacturing Library and use appropriate Aspen Production Execution Manager modules to create and track orders.
Pre-requisites: None.
Duration: 4 day(s)

MES1200 - Calculations and Data Analysis for Engineers
Know the tools that are essential to build and execute calculations on the data, analyze historical data, configure Key Performance Indicators (KPI's) to monitor unit performance and retrieve plant data into Microsoft Excel using the Aspen Process Data add-in for Excel.
Pre-requisites: Attended MES122 Aspen Process Explorer: Using and Configuring.
Duration: 3 day(s)

Process Engineering

ACU-HYSYS01 - Aspen HYSYS Refresher Course

This is a refresher course for Aspen HYSYS fundamentals and designed for participants who are preparing to take the Aspen HYSYS User Certification exam. This version is delivered virtually through a 4-hrs online instructor-led session with access to virtual training lab for self-practices. Certification exam will be held post the refresher class.
Pre-requisites: Previous experience of Aspen HYSYS of completion of EHY101: Introduction to Process Modeling using Aspen HYSYS.
Duration: 0.5 day(s)

ACU-HYSYS01 - Aspen HYSYS Refresher Course & User Certification Exam

This is a refresher course for Aspen HYSYS fundamentals and designed for participants who are preparing to take the Aspen HYSYS User Certification Exam. This version is delivered virtually through a 4-hrs online instructor-led session with access to virtual training lab for self-practices followed by the Certification Exam in the afternoon.
Pre-requisites: Previous experience of Aspen HYSYS of completion of EHY101: Introduction to Process Modeling using Aspen HYSYS.
Duration: 1 day(s)

ACU-PLUS01 - Aspen Plus Refresher Course

This is a refresher course for Aspen Plus fundamentals and designed for participants who are preparing to take the Aspen Plus User Certification Exam. This version is delivered virtually through a 4-hours online instructor-led session with access to virtual training lab for self-practices. Certification exam will be held post the refresher class
Pre-requisites: Previous experience of Aspen Plus of completion of EAP101: Aspen Plus Process Modeling.
Duration: 0.5 day(s)

ACU-PLUS01 - Aspen Plus Refresher Course & User Certification Exam

This is a refresher course for Aspen Plus fundamentals and designed for participants who are preparing to take the Aspen Plus User Certification Exam. This version is delivered virtually through a 4-hours online instructor-led session with access to virtual training lab for self-practices followed by the Certification Exam in the afternoon.
Pre-requisites: Previous experience of Aspen Plus of completion of EAP101: Aspen Plus Process Modeling.
Duration: 1 day(s)

EAP021: Rate Based Model to Design and Optimize Carbon Capture

Learn how to leverage Aspen Rate-Based Distillation technology to create reliable models to aid in decision-making at the design or operation stages of these type of processes. In this training you will learn about key parameters in Rate Base Distillation and how to build CO2 rate-based distillation systems.
Pre-requisites: None.
Duration: 0.5 day(s)

EAP101: Process Modeling using Aspen Plus

Learn steady-state process simulation, process analysis and optimization using Aspen Plus
Pre-requisites: None.
Duration: 3 day(s), also available in FlexClass format.

EAP121 - Introduction to Aspen Simulation

Learn how to embed and link an Aspen Plus Simulation case and variables within MS Excel without using any programming languages.
Pre-requisites: Attended EAP101: Process Modeling using Aspen Plus.
Duration: 1 day(s), also available in FlexClass format.

EAP150 - Rigorous Design and Rating of Distillation Columns
Understand how to interactively design and rate distillation columns in Aspen Plus.
Pre-requisites: None.
Duration: 1 day(s), also available in FlexClass format.

EAP201 - Aspen Plus: Physical Properties for Process Engineers
Develop the skills and techniques required to specify and use thermodynamic property models in your steady-state and dynamic simulations by gaining a better understanding of the Aspen Plus physical properties system.
Pre-requisites: Attended EAP101: Process Modeling using Aspen Plus.
Duration: 2 day(s), also available in FlexClass format.

EAP202 - Modeling Batch Processes using Aspen Plus
Build and troubleshoot flowsheet simulations with batch distillation columns, reactors, crystallizers. Model custom kinetics without using programming language.
Pre-requisites: Attended EAP101: Process modeling using Aspen Plus.
Duration: 2 day(s)

EAP2121 - Process Flowsheet Convergence in Aspen Plus
Review and analyze convergence and optimization features in Aspen Plus sequential run mode and learn how to solve convergence problems. Enables the attendee to develop more robust and efficient models of complex flowsheets.
Pre-requisites: Attended EAP101: Process Modeling using Aspen Plus.
Duration: 1 day(s)

EAP2311 - Building Custom Simulation Models using Aspen Custom Modeler
Learn how to develop open equation models using Aspen Custom Modeler. Gain the practical skills to build and run custom models. Use automation to pass information to and from Microsoft? Excel and control the simulation.
Pre-requisites: None.
Duration: 3 day(s)

EAP2411 - Improved Process Operability and Control through Aspen Plus Dynamic Models
Learn how to solve process design, plant operation and control problems using Aspen Plus Dynamics. Study and select control strategies and reduce plant design time. Evaluate plant re-vamp opportunities and troubleshoot plant operation problems.
Pre-requisites: Attended EAP101: Process Modeling using Aspen Plus.
Duration: 3 day(s)

EAP221 - Modeling Processes with Equation Oriented Methods using Aspen Plus
Learn to configure, manipulate, and solve flowsheets in Equation Oriented (EO) solution mode and how to convert your sequential model (SM) simulations to EO. Learn when to use EO versus SM and how SM features are translated to EO. Troubleshoot common EO simulation errors.
Pre-requisites: Attended EAP101: Process Modeling using Aspen Plus.
Duration: 2 day(s)

EAP250 - Aspen Plus: Distillation Modeling
Learn how to handle complex distillation such as azeotropic, 3-phase, and reactive distillation, how to set up pump arounds, side draws, multiple condensers and how to optimize the feed location and number of stages. Learn how to perform Sizing/Rating of trayed and packed towers. Troubleshoot convergence issues.
Pre-requisites: Attended EAP101: Process Modeling using Aspen Plus.
Duration: 2 day(s), also available in FlexClass format

EAP2510 - Achieve Sustainability Targets through Carbon Capture Modeling in Aspen Plus
Learn how to use a higher fidelity, more realistic modeling approach to obtain simulation results that are more accurate than those attainable through conventional models, allowing users to make better predictions for sustainability calculations.
Pre-requisites: Attended EAP101: Process Modeling using Aspen Plus .
Duration: 3 day(s)

EAP252 - Pressure Relief Analysis Using Aspen Plus
Learn how to define overpressure systems using Aspen Plus in accordance with API 520, 521 and 2000. Design single or multiple relief valves for all applicable scenarios in an overpressure system. Document the full overpressure analysis within Aspen Plus.
Pre-requisites: Attended EAP101: Process Modeling using Aspen Plus.
Duration: 1 day(s)

EAP2711 - Reaction Analysis and Reactor Design using Aspen Plus
Enables the attendee to recognize the various reactor/reaction capabilities within Aspen Plus. Provides hands-on experience modeling various reactors and analyzing reaction results.
Pre-requisites: Attended EAP101: Process Modeling using Aspen Plus.
Duration: 2 day(s)

EAP281 - Aspen Plus: Process Simulation with Aspen Polymers
Learn how to use Aspen Polymers to model polymerization processes. Acquire knowledge on polymer thermodynamics and phase equilibria and the modeling approach for polymerization kinetics. Understand the basic steps for developing polymer process models.
Pre-requisites: Attended EAP101: Process Modeling using Aspen Plus or EAP201 Aspen Plus: Physical Properties for Process Engineers.
Duration: 3 day(s)

EAP288 - Introduction to Aspen Adsorption
Acquire the skills to set up and solve dynamic simulation problems in adsorption. Gain first-hand experience in working within the Aspen Adsorption simulation environment. Apply Aspen Adsorption to build and execute simulations rapidly.
Pre-requisites: None.
Duration: 2 day(s)

EAP289 - Introduction to Aspen Chromatography
Learn how to set up and solve the dynamic simulation problems in chromatography. Gain first-hand experience in working within the Aspen Chromatography simulation environment to build and execute simulations rapidly.
Pre-requisites: Attended EAP2311 Building Custom Simulation Models using Aspen Custom Modeler.
Duration: 2 day(s)

EAP2911 - Solids Modeling Using Aspen Plus
Become proficient in modeling processes containing solids handling equipment. Determine optimal process conditions for new or existing solids processes. Support troubleshooting and de-bottlenecking of solids processes.
Pre-requisites: Attended EAP101: Process Modeling using Aspen Plus.
Duration: 2 day(s)

EAP2980 - Modeling of Processes with Aqueous Ionic Solutions - Electrolytes and Salts
Learn how to set up simulations for electrolyte systems in Aspen Plus. Learn how to use electrolyte properties by gaining a better understanding of the Aspen Plus electrolyte physical properties system. Address special issues when modeling processes with electrolytes.
Pre-requisites: Attended EAP101: Process Modeling using Aspen Plus.
Duration: 2 day(s)

EAP301 - Aspen Plus: Real Time Modeling and Optimization
Learn how to do real time optimization using the Equation Oriented (EO) strategy and how to tune models using real-time data and parameter estimation and data reconciliation. Learn to solve large flowsheets quickly using the EO approach. Increase confidence in the plant measurements using parameter estimation and data reconciliation.
Pre-requisites: Attended EAP101: Process Modeling using Aspen Plus.
Duration: 4 day(s)

EAP3021 - Aspen OnLine: Project Setup and Establish Connection
Learn to Setup Aspen OnLine project, import and export tags and mapping variables in process simulation models. Schedule the automated run and data synchronization between historian and process simulation models.
Pre-requisites: Attended EAP101: Process Modeling using Aspen Plus.
Duration: 1 day(s)

EAP3022 - Aspen OnLine: Advanced Configuration
Learn In-depth understanding of Aspen OnLine project execution. Understand the use of different type of tags and tag section for large plant models and Utilize advance feature for models scheduling.
Pre-requisites: Attended EAP3021 Aspen OnLine: Project Setup and Establish Connection and EAP101: Process Modeling using Aspen Plus.
Duration: 1 day(s)

EBE101 - Develop FEED Packages using Aspen Basic Engineering
Learn how to conduct engineering studies and projects using a central data repository with controlled and simultaneous data access. Eliminate clerical transcription and errors through instant update of changes in data to all users viewing the data. Gain an understanding of how the various modules of Aspen Basic Engineering are structured.
Pre-requisites: None.
Duration: 2 day(s), also available in FlexClass format.

EBE201 - Aspen Basic Engineering: Project and Administrator Configuration
Learn how to configure Aspen Basic Engineering (ABE) to meet your specific needs, and the structure of ABE modules. Develop organization/industry/project specific datasheets and symbols and customize data models to reflect industry specific objects and attributes.
Pre-requisites: Attended EBE101: Develop FEED Packages using Aspen Basic Engineering.
Duration: 2 day(s)

EEE101 - Develop Cost Estimates for Capital Projects
Learn how to obtain detailed EPC estimate from minimal input in a fraction of the time required by traditional methods. Use Aspen Capital Cost Estimator to evaluate your company's projects and maximize return on investment. Reduce estimation variability by adopting a consistent methodology. Make adjustments to project estimates according to local area conditions and reduce potential decision-making risks.
Pre-requisites: None.
Duration: 4 day(s), also available in FlexClass format.

EEE102 - Use Cost Estimation Tool for Process Simulations
Learn to develop an economic evaluation and proposed design using Aspen Process Economic Analyzer. Obtain detailed design results for both equipment and installation bulks with minimal input, and by integrating operating cost, capital cost, and schedule. Learn to analyze different process alternatives in simulation and determine the more profitable approach. Learn to show the utility usage for your process. Learn to adjust construction wages and to adjust the system calculations to reflect your local cost.
Pre-requisites: None.
Duration: 3 day(s)

EEE103 - Creating and Interpreting Project Cost Estimates for Small Capital Projects
Learn how to develop in-plant design, estimate and schedule using Aspen In-Plant Cost Estimator. Reduce estimation variability by adopting a consistent methodology.
Pre-requisites: None.
Duration: 3 day(s)

EEE201 - Aspen Capital Cost Estimator: Advanced Topics
Gain the experience you need to use Aspen Capital Cost Estimator for detailed estimates and cost tracking, all phases of estimating the lifecycle of a job, and using the decision analyzer to scale estimates.
Pre-requisites: Attended EEE101 Develop Cost Estimates for Capital Projects.
Duration: 5 day(s)

EHM101 - Introduction to Aspen Hybrid Models for Engineering
Gain the practical skills and knowledge to begin using Aspen Hybrid Models. Learn differences between various workflows and information needed to create Aspen Hybrid models. Review and work through examples of different types of Aspen Hybrid Models.
Pre-requisites: Attended EAP101: Processing Modeling using Aspen Plus or EHY101: Introduction to Process Modeling using Aspen HYSYS.
Duration: 1 day(s)

EHM102 - Introduction to First Principles Driven Hybrid Models
Learn how to leverage plan data to enhance first-principles models using AI/ML. Gain practical skills and knowledge to begin using First Principles Driven Hybrid Models. Review and work through different examples of different First Principles Driven Hybrid Models.
Pre-requisites: Process Engineers with basic knowledge of Aspen Plus or Aspen HYSYS.
Duration: 1 day(s)

EHX101 - Design and Rate Shell and Tube Heat Exchangers
Learn how to integrate and general design consideration of Shell and Tube Heat Exchangers.
Pre-requisites: None.
Duration: 2 day(s), also available in FlexClass format.

EHX1021 - Design and Rate Air Cooled Heat Exchangers
Learn the general design considerations of Air-Cooled Exchangers. Examine process side, air side, geometry selection and physical properties, and investigate thermal design principles, crossflow exchangers and extended surfaces. Explore process-side events and responses, including single and two-phase heat transfer, condensing and fouling.
Pre-requisites: None.
Duration: 1 day(s)

EHX1031 - Design and Simulation of Fired Heaters
Learn the fundamentals of rating and simulating a fired heater. Understand the requirements for design checking and simulation of fired heaters. Efficiently use the Aspen Fired Heater application to evaluate: Vertical Cylindrical Unit (VCU) with convection bank, Twin cabin firebox, Single cabin fired heater with roof tubes.
Pre-requisites: None.
Duration: 1 day(s)

EHX1041 - Introduction to Aspen Plate Fin Exchanger
Learn the fundamentals of simulating a plate fin heat exchanger. Understand the requirements for design, checking and simulation of plate fin exchanger. Efficiently use the Aspen Plate Fin Exchanger application to evaluate: Single-phase exchangers, Cryogenic condensers, Cryogenic reboilers/vaporizers, Multi stream/layers exchangers.
Pre-requisites: None.
Duration: 1 day(s)

EHX1061 - Introduction to Aspen Coil Wound Heat Exchanger
Identify and explain the basic concepts of heat transfer in association with coil wound heat exchangers
Pre-requisites: None.
Duration: 1 day(s)

EHX1100 - Modeling Heat Exchangers Using the Exchanger Design and Rating Suite
Learn the fundamentals of producing a cost optimized exchanger design.
Pre-requisites: None.
Duration: 3 day(s)

EHX131 – Heat Exchanger Mechanical Design using Aspen Shell & Tube Mechanical
Learn the basic mechanical design of shell and tube heat exchangers. Reduce design time and capital costs by utilizing powerful optimization techniques. Realize cost savings by reducing the project lifecycle.
Pre-requisites: Participants should be involved in the thermal and mechanical design of shell and tube heat exchangers.
Duration: 1 day(s)

EHY101 - Introduction to Process Modeling using Aspen HYSYS
Learn how to build and troubleshoot flowsheet simulation models using Aspen HYSYS
Pre-requisites: None.
Duration: 3 day(s), also available in FlexClass format.

EHY102 - Model and Troubleshoot Refinery Process Units using Aspen HYSYS Petroleum Refining Tools
Learn and apply the industry's best practices to build, troubleshoot and optimize the refinery process units using Aspen HYSYS® Petroleum Refining tools.
Pre-requisites: Attended EHY101: Introduction to Process Modeling using Aspen HYSYS.
Duration: 3 day(s)

EHY107 - Ensure Process Safety with BLOWDOWN™ Technology and PSV Sizing in Aspen HYSYS
Learn to use latest features in Aspen HYSYS to design and rate blowdown valves, pressure safety valves and pressure vacuum vents.
Pre-requisites: None.
Duration: 1 day(s)

EHY121 - Building MS Excel User Interfaces for Aspen HYSYS Simulations Using Aspen Simulation Workbook
Learn how to embed and link an Aspen HYSYS Simulation case and variables within MS Excel without using any programming languages.
Pre-requisites: Attended EHY101: Introduction to Process Modeling using Aspen HYSYS.
Duration: 1 day(s)

EHY130 - Modeling Liquefied Natural Gas Plant Using Aspen HYSYS®
Use the capabilities of Aspen HYSYS Upstream to enable shared workflow for Liquefied Natural Gas plant modeling. Build a composition-based flowsheet. Utilize several analysis tools for improving overall performance. Implement different units used to customize flowsheets.
Pre-requisites: Attended EHY101: Introduction to Process Modeling using Aspen HYSYS.
Duration: 2 day(s)

EHY150 - Refinery Process Modeling using Aspen HYSYS and Aspen HYSYS Petroleum Refining
Learn to build, navigate, and optimize process simulations using Aspen HYSYS and Aspen HYSYS Petroleum Refining.
Pre-requisites: None.
Duration: 5 day(s)

EHY202 - Advanced Solutions using Aspen HYSYS
Learn how to use and apply advanced modeling techniques to enhance your simulation and Create models that emulate plant conditions.
Pre-requisites: Attended EHY101: Introduction to Process Modeling using Aspen HYSYS.
Duration: 2 day(s)

EHY210 - Optimize Refinery Process Models with Aspen HYSYS Petroleum Refining
Learn to build, evaluate, and optimize Refinery Models including complicated refinery reactors using Aspen HYSYS™ Petroleum Refining. Learn to track petroleum properties, perform case studies, and evaluate profit for steady-state simulations of refining processes.
Pre-requisites: Attended EHY101: Introduction to Process Modeling using Aspen HYSYS.
Duration: 3 day(s)

EHY223 - Build, Optimize and Control Dynamic Process Models using Aspen HYSYS® Dynamics
Learn how to convert steady-state models into dynamic models to solve process design, plant operation and control problems using Aspen HYSYS Dynamics.
Pre-requisites: Attended EHY101: Introduction to Process Modeling using Aspen HYSYS.
Duration: 3 day(s), also available in FlexClass format

EHY2311 - Developing Automation Solutions for Aspen HYSYS
Recognize the benefits of using automation in conjunction with Aspen HYSYS. Reinforce programming concepts that support automation in Aspen HYSYS. Use Visual Basic and Excel to create automation solutions for Aspen HYSYS simulation models.
Pre-requisites: Attended EHY101: Introduction to Process Modeling using Aspen HYSYS.
Duration: 2 day(s)

EHY2312 - Create Custom Unit Operations and Kinetic Model Extensions using VB.net for Aspen HYSYS
Learn to develop custom unit operations in Aspen HYSYS Learn the efficient use of different HYSYS functions to understand how custom unit operations work. Investigate how different methods and properties work and interact with custom HYSYS extensions.
Pre-requisites: Attended EHY2311: Developing Automation Solutions for Aspen HYSYS.
Duration: 2 day(s)

EHY2314 - Developing Dynamic Unit Operation Extensions for Aspen HYSYS using VB.NET
Build and troubleshoot a Dynamic Unit Operation Extension. Learn the fundamentals of creating the base code for a Dynamic Unit Operation Extension that implements Pressure and Flow Balance equations.
Pre-requisites: Familiarity with Basic Aspen HYSYS Dynamic process modeling. Knowledge of how to program in VB or other computer languages.
Duration: 1 day(s)

EHY2351 - Modeling Heavy Oil & Gas Production and Facilities Using Aspen HYSYS Upstream
Use the new advanced capabilities of Aspen HYSYS to enable shared workflow between production modeling and facilities modeling.
Pre-requisites: Attended EHY101: Introduction to Process Modeling using Aspen HYSYS.
Duration: 2 day(s)

EHY250 - Determine Rapid Depressurization Safety Limits for Design and Rating
Learn the industrial importance of BLOWDOWN technology and how it is used to accurately determine temperature profiles during depressurization process, which is critical to the design and operation of every process plant.
Pre-requisites: Attended EHY101: Introduction to Process Modeling using Aspen HYSYS.
Duration: 1 day(s)

EHY251 - Evaluating and Rating Flare Networks
Learn how to design and evaluate flare network flowrates and design constraints on backpressure, Mach number, noise, and pipe fatigue. Solve complex network hydraulics and incorporate industry standards. Reduce capital cost by determining optimum equipment sizes, and, more importantly, ensure the safety of the plant.
Pre-requisites: None.
Duration: 2 day(s)

EHY252 - Pressure Relief Analysis Using Aspen HYSYS
Learn how to define overpressure systems using Aspen HYSYS in accordance with API 520, 521 and 2000. Design single or multiple relief valves for all applicable scenarios in an overpressure system. Document the full overpressure analysis within Aspen HYSYS.
Pre-requisites: Attended EHY101: Introduction to Process Modeling using Aspen HYSYS.
Duration: 1 day(s)

EHY263 - Modeling and Optimizing Hydrocracker Using Aspen HYSYS Petroleum Refining
Learn techniques to generate delta vectors which can be used in the refinery LP planning model (Aspen PIMS) to improve refinery crude feedstock selection and plant-wide optimization. This customized course is primarily workshop-based with an introductory lecture and demonstration.
Pre-requisites: None.
Duration: 1 day(s)

EHY301 - Troubleshoot complex processes using advanced EO in Aspen HYSYS
Learn to use Equation Oriented (EO) Capabilities in Aspen HYSYS to simulate a fully integrated Crude Distillation Unit preheat train.
Pre-requisites: Attended EHY101: Introduction to Process Modeling using Aspen HYSYS or EHY202: Advanced Solutions using Aspen HYSYS.
Duration: 0.5 day(s)

EHY303 - Introduction to Modelling Air Separation Units
Build, navigate and optimize a steady state simulation of an Air Separation Unit (ASU) using Aspen HYSYS. Utilize a wide variety of unit operation models and calculation tools to model process equipment. Use templates and sub-flowsheets to streamline and organize the different sections of the plant.
Pre-requisites: Attended EHY101: Introduction to Process Modeling using Aspen HYSYS or EHY202: Advanced Solutions using Aspen HYSYS.
Duration: 2 day(s)

EOP101 - 3D Conceptual Layout for Estimation - Basic Training using Aspen OptiPlant & ACCE
Learn to Build, navigate and optimize 3D conceptual models using Aspen OptiPlant.
Pre-requisites: None.
Duration: 3 day(s)

EOP201 - 3D Conceptual modeling for FEED Projects – Advanced Training using Aspen OptiPlant
Build, navigate and optimize 3D conceptual models using Aspen OptiPlant with AI integrated automatic pipe routing and transfer the conceptual 3D model to other 3D detailed design tools.
Pre-requisites: Attended EOP101: 3D Conceptual Layout for Estimation - Basic Training using Aspen OptiPlant & ACCE.
Duration: 3 day(s)

EPD101 - Modeling and Analyzing Batch Processes for Pharmaceuticals
Learn how to model and analyze batch data to rapidly evaluate new synthesis routes and develop cost estimates with limited data, and to build an equipment and material database.
Pre-requisites: None.
Duration: 2 day(s)

IAI101 – Industrial AI Fundamentals
Gain awareness and foundational knowledge on how to leverage different Industrial AI opportunities and how Industrial AI can help organizations quickly adapt to changing business conditions, uplevel the workforce and drive operational efficiencies. Understand how to prioritize Industrial AI programs relative to their expected ability to create business value, and how to measure that value.
Pre-requisites: None.
Duration: 0.5 day(s)

SUS-E102 - Optimize Refinery Heat Exchangers Design for Sustainable Operations
Learn how to accurately design fired heaters, shell and tube, and air-cooled heat exchangers to minimize energy consumption.
Pre-requisites: Access to Exchanger Design and Rating suite.
Duration: 3 day(s)

SUS-E201 – Improve Energy Efficiency using Heat Recovery
Learn how to design better and more efficient heat exchanger networks using Aspen Energy Analyzer with Aspen Plus or Aspen HYSYS. Learn how to optimize distribution of energy and mass flow considering energy savings and capital cost trade off.
Pre-requisites: Attended EAP101: Processing Modeling using Aspen Plus or EHY101 Aspen HYSYS: Process Modeling.
Duration: 3 day(s)

SUS-H208 - Model Production of Green Fuel from Waste Oil
Learn how to model the oxygen removal process to convert waste cooking oil into green diesel.
Pre-requisites: A background in chemical engineering or industrial chemistry.
Duration: 1 day(s)

SUS-P202 - Model Electrolytes for Carbon Capture and Hydrogen Production Processes
Learn how to address common challenges when modeling electrolyte chemistry for carbon capture and hydrogen production.
Pre-requisites: Prior experience in modeling using Aspen Plus.
Duration: 2 day(s)

SUS-P203 - Carbon Capture Process Modeling
Learn how to create carbon capture models with chemical and physical solvents. Learn the skills to set up accurate physical properties method, model key electrolyte components, incorporate intricate kinetics data, and configure rigorous rate-based Radfrac columns.
Pre-requisites: Attended EAP101: Processing Modeling using Aspen Plus.
Duration: 3 day(s)

SUS-P2031 - Direct Air Capture Process Modeling with an Aqueous Absorbent
Learn how to build and simulate a Direct Air Capture process with aqueous potassium hydroxide solution, and how to integrate this model into a steady state process simulation and set up physical properties along with key unit operations to model the complete process.
Pre-requisites: Attended EAP101: Processing Modeling using Aspen Plus or EAP2311: Building Custom Simulation Models using Aspen Custom Modeler.
Duration: 1 day(s)

SUS-P204 - Optimize Acid Gas Scrubber Design in Carbon Capture Processes
Learn how to recapture CO2 using a scrubber. Set up a model using a higher fidelity, more realistic modeling approach than conventional models to make better predictions for Sustainability calculations.
Pre-requisites: Attended EAP101: Processing Modeling using Aspen Plus.
Duration: 2 day(s)

SUS-P205 - Model a Green Hydrogen Production Unit
Learn how to model an electrolysis unit that converts water into hydrogen using potassium hydroxide solution.
Pre-requisites: Attended EAP101: Processing Modeling using Aspen Plus.
Duration: 1 day(s)

SUS-P2051 - Model Solar Cell for Renewable Energy Generation to Produce Green Hydrogen with Alkaline Electrolysis
Learn how to develop solar cell models to power an electrolysis process used in green hydrogen production.
Pre-requisites: None.
Duration: 0.5 day(s)

SUS-P207 - Model Bio-Based Feedstock Processes
Learn how to accurately model sustainable bio-based feedstock processes using solids modeling techniques.
Pre-requisites: Attended EAP101: Processing Modeling using Aspen Plus.
Duration: 2 day(s)

SUS-U101 – Optimize Plant Utilities to Reduce Energy Consumption
Reduce the risk involved in making decisions that need to consider utility prices, equipment availability and constraints, efficiency and utility demand. Optimize utility variability by adopting a consistent methodology to model, simulate and analyze energy management business processes.
Pre-requisites: None.
Duration: 2 day(s)

Refinery Planning & Scheduling

AUP101 - Introduction to Aspen Unified PIMS
This course provides systematic training in Aspen Unified PIMS (AUP) for refinery Linear Programming (LP) planners. Detailed emphasis is placed on introducing and reviewing advanced features and functions in Aspen Unified PIMS, including Planning Work Area, Price Catalog, Flowsheet Model Building, Model Life Cycle Management, etc.
Pre-requisites: Attendees should have a basic understanding of Aspen PIMS.
Duration: 3 day(s)

AUS101 – Introduction to Aspen Unified Scheduling
Learn how to leverage Aspen Unified Scheduling (AUS) for refinery schedulers. Gain competencies in using advanced features and functions in Aspen Unified Scheduling, including Site Catalog, Work Area, Event and Case Management, Flowsheet Creation, Schedule Reconciliation and Optimization, Multi-user Workflow, etc.
Pre-requisites: Attendees should have a basic understanding of refinery operations and scheduling.
Duration: 3 day(s)

AUS102 – Mastering Day-to-Day Refiner Scheduling with Aspen Unified Scheduler
Gain familiarity with key AUS features and tools. Develop skills in AUS work area and flowsheet creation and management. Execute Aspen Unified Planning to Scheduling data sharing through Site Catalog. Perform schedule simulation and optimization evaluations with advanced analysis functions in AUS.
Pre-requisites: Attendees should have a basic understanding of refinery operations and scheduling.
Duration: 2 day(s)

RBS121 - Aspen Petroleum Scheduler: Building and Using Models
Learn how to build a model of a medium conversion refinery and schedule the refinery operations in Aspen Petroleum Scheduler. This course is aimed at model developers and implementers.
Pre-requisites: None.
Duration: 5 day(s)

RBS131 - Aspen Refinery Multi-Blend Optimizer: Blend Planning and Scheduling
Learn how to build a model for seamless scheduling and optimization of daily blend activities.
Pre-requisites: None.
Duration: 2 day(s)

RPA101 - Introduction to Refinery Planning using Aspen PIMS
Learn how to solve refinery planning problems using Aspen PIMS and Aspen PIMS-Advanced Optimization.
Pre-requisites: None.
Duration: 5 day(s)

RPA102 - Introduction to Aspen PIMS for Petrochemical Planning
Build petrochemical planning models in PIMS to generate optimum plans including evaluating alternative feeds, process units, products, and markets. Develop Linear Programming (LP) structure to solve optimization problems including interpreting and analyzing the LP solutions.
Pre-requisites: None.
Duration: 4 day(s)

RPA153 - Aspen Report Writer for Aspen PIMS
Learn how to build reports that display data from PIMS, Aspen Petroleum Scheduler and Aspen Multi-Blend Optimizer.
Pre-requisites: Attended RPA101: Introduction to Refinery Planning using Aspen PIMS.
Duration: 1 day(s)

RPA201 - Aspen PIMS: Solving Refinery Planning Problems
To provide an intensive problem-solving workshop designed for the experienced Aspen PIMS user. Detailed emphasis is placed on reviewing Aspen PIMS modeling techniques and troubleshooting errors and warnings in models.
Pre-requisites: Attended RPA101: Introduction to Refinery Planning using Aspen PIMS.
Duration: 5 day(s)

RPA301 - Aspen PIMS: Advanced Refinery Planning Models
Learn to debug recursion structure and problems. Address Mixed Integer Situations using Aspen PIMS MIP capabilities. Apply Aspen Blend Model Library and other blending techniques to model rigorous blending. Troubleshoot modeling and convergence problems to perform Solution Analysis. Manage local optima problems.
Pre-requisites: Attended RPA201 Aspen PIMS: Solving Refinery Planning Problems.
Duration: 5 day(s)

Subsurface Science & Engineering

ECH101 – Seismic Data Processing using Aspen Echos
Learn about the interactive and production approaches in Echos. This course aims to introduce you to the wide range of modules available for both prestack and poststack processing of 2D and 3D land and marine data, so you can design and perform your own seismic data processing workflows.
Pre-requisites: Experience of seismic data processing.
Duration: 5 day(s)

ECH102 - 3D Marine Processing using Aspen Echos
Learn about the interactive and production approaches in Echos for 3D marine datasets.
Pre-requisites: Experience of seismic data processing.
Duration: 3 day(s)

ECH103 – Land Processing using Aspen Echos
Learn about the interactive and production approaches in Echos for 2D and 3D marine datasets.
Pre-requisites: Experience of seismic data processing.
Duration: 3 day(s)

EPO101 - Aspen Epos System Administration and Database Management
Learn how to install and configure Aspen Epos software, understand Epos architecture, create and administer Epos databases, and how to provide support and perform troubleshooting using AspenTech utilities.
Pre-requisites: Some familiarity with Linux or completion of a System Administration course (Unix and/or Windows).
Duration: 3 day(s)

EPO102 - Loading and Managing Seismic and Interpretation Data using Aspen Epos
Learn how to use AspenTech tools for loading, QCing, and managing seismic and interpretation data.
Pre-requisites: Background/familiarity with data loading terminology and concepts, and an understanding of basic geoscience concepts.
Duration: 3 day(s)

EPO103 - Loading and Managing Well Data using Aspen Epos
Learn how to use AspenTech tools for loading, QCing, and managing well, seismic, and interpretation data.
Pre-requisites: Background/familiarity in data loading terminology and concepts, and an understanding of basic geoscience concepts.
Duration: 2 day(s)

EPO110 - Aspen Epos Data Management for Technologists
Learn how to use AspenTech tools for loading, QCing, and managing seismic and Interpretation data.
Pre-requisites: Background/familiarity in data loading terminology and concepts, and an understanding of basic geoscience concepts.
Duration: 5 day(s)

EPO121 - Aspen Epos OpenGeo SDK
Gain the skills necessary to work with OpenGeo, one of AspenTech's development toolkits.
Pre-requisites: Developing experience in C++, basic knowledge of geophysics.
Duration: 5 day(s)

GDE121 – 2D Depth Velocity Model Building and Depth Imaging using Aspen GeoDepth
Learn how to create an initial interval velocity model, perform depth imaging, and update the velocity model using GeoDepth 2D.
Pre-requisites: Background in geophysics, completion of Constrained Velocity Inversion eLearning course.
Duration: 3 day(s)

GDE131 – 3D Depth Velocity Model Building and Depth Imaging using Aspen GeoDepth
Learn how to perform basic time-to-depth velocity model building workflows and time-to-depth migration using GeoDepth 3D. This course includes a structure-independent (grid-based) and a layer-based model building workflow.
Pre-requisites: Background in geophysics.
Duration: 5 day(s)

GDE231 – Modeling and Imaging with Anisotropy using Aspen GeoDepth
This course is designed for existing users of Aspen GeoDepth who want to work with anisotropy and is designed to teach you how to perform anisotropic modeling and imaging, including how to run isotropic-to-anisotropic tomography and anisotropic prestack depth migration.
Pre-requisites: Attended GDE131: 3D Depth Velocity Model Building and Depth Imaging using Aspen GeoDepth.
Duration: 2 day(s)

GEO100 - Site Administration for Aspen Geolog
Learn how to install, configure, and maintain Aspen Geolog.
Pre-requisites: Knowledge of Linux and/or Windows administration.
Duration: 2 day(s)

GEO101 - Essentials for Performing Log Analysis using Aspen Geolog
Learn to start Geolog, open applications and document views within the applications, use the menus, tool bars and other functions common throughout Geolog, and manage working projects.
Pre-requisites: None.
Duration: 3 day(s)

GEO102 - Deterministic Petrophysical Log Analysis using Aspen Geolog
Learn how to use Geolog Determin as a tool for performing advanced deterministic petrophysical well evaluations.
Pre-requisites: A working knowledge of Aspen Geolog, and of basic petrophysics, or attended GEO101: Essentials for Performing Log Analysis using Aspen Geolog.
Duration: 2 day(s)

GEO103 - Multi-Mineral Analysis and Interpretation using Aspen Geolog
Learn how to use Geolog Multimin to perform sophisticated formation evaluation.
Pre-requisites: A working knowledge of Aspen Geolog, and a background in petrophysics, including an understanding of mineralogy effects on tool responses, or attended GEO101: Essentials for Performing Log Analysis using Aspen Geolog and GEO102: Deterministic Petrophysical Log Analysis and Uncertainty using Aspen Geolog.
Duration: 2 day(s)

GEO104 - Laminated Shaly Sand Analysis using Aspen Geolog
Learn how to perform laminated shaly sand analysis, using the LSSA application within Aspen Geolog. This training course reviews the theory behind LSSA, and the difficulties encountered when interpreting thin beds.
Pre-requisites: A working knowledge of Aspen Geolog or attended GEO101: Essentials for Performing Log Analysis using Aspen Geolog.
Duration: 2 day(s)

GEO111 - Introductory Loglan Programming in Aspen Geolog
Learn how to develop log processing modules to perform your own processing algorithms on your Geolog data.
Pre-requisites: Familiarity with Aspen Geolog or attended GEO101: Essentials for Performing Log Analysis using Aspen Geolog. Some experience of programming is beneficial.
Duration: 2 day(s)

GEO112 - Tcl Programming in Aspen Geolog
Learn how to develop scripts for log processing, database access, information management, and report generation using Tcl instructions and the Geolog extensions to Tcl.
Pre-requisites: Familiarity with Aspen Geolog or attended GEO101: Essentials for Performing Log Analysis using Aspen Geolog. Some experience of programming is beneficial.
Duration: 1 day(s)

GEO201 - Borehole Image Processing and Analysis using Aspen Geolog
Learn to use the Borehole Image Processing module in Geolog, an advanced analysis tool kit that enables users to process, enhance, and analyze vendor specific image tools and logs.
Pre-requisites: A working knowledge of Aspen Geolog or attended GEO101: Essentials for Performing Log Analysis using Aspen Geolog.
Duration: 2 day(s)

GEO202 - Nuclear Magnetic Resonance Analysis (NMR & NMR2D) using Aspen Geolog
Learn about the theory behind NMR and NMR2D measurements and how to perform processing, quality control and interpretation of NMR logs.
Pre-requisites: Familiarity with Aspen Geolog, and a background in geology, petrophysics, or well log analysis, or attended GEO101: Essentials for Performing Log Analysis using Aspen Geolog.
Duration: 2 day(s)

GEO203 – Rock Physics using Aspen Geolog
Learn about the Geophysics application within Aspen Geolog and how to generate a synthetic seismic trace, estimate pore pressure and perform the fluid substitution workflow.
Pre-requisites: Previous experience of using Aspen Geolog, including proficiency in using Geolog's Well application, or attended GEO101: Essentials for Performing Log Analysis using Aspen Geolog.
Duration: 2 day(s)

GEO204 - Full Waveform Sonic Processing using Aspen Geolog
Learn how to use the array sonic processing tools in Geolog and how to perform a typical workflow.
Pre-requisites: Familiarity with basic functionality in Aspen Geolog and module processing or attended GEO101: Essentials for Performing Log Analysis using Aspen Geolog.
Duration: 2 day(s)

GEO207 - Electrofacies Analysis and Data Prediction using Facimage in Aspen Geolog
Learn how to perform electrofacies analysis and data modeling, using the Facimage functionality in Geolog.
Pre-requisites: Familiar with Aspen Geolog or attended GEO101: Essentials for Performing Log Analysis using Aspen Geolog.
Duration: 2 day(s)

QSI101 – Fluid and Rock Property Estimation using AVO and Inversion Workflows
Learn how to perform a reservoir characterization workflow which integrates petrophysical analysis, rock physics, AVO analysis, seismic inversion, and 3D visualization, to identify, visualize and validate hydrocarbon prospects. Includes an introduction to elastic wave theory, rock physics, AVO theory, and seismic inversion.
Pre-requisites: Attended SEI101: Multi-Survey (2D/3D) Interpretation using SeisEarth or familiar with Aspen SeisEarth.
Duration: 4 day(s)

QSI106 – Property Prediction using Neural Network Seismic Inversion in Aspen SeisEarth
Learn how to use the Neural Network Inversion workflow to predict rock and elastic properties from seismic attributes and log data using a machine learning approach.
Pre-requisites: Attended SEI101: Multi-Survey (2D/3D) Interpretation using SeisEarth or QSI101: Fluid and Rock Property Estimation using AVO and Inversion Workflows.
Duration: 0.5 day(s)

RMS101 - Introduction to Aspen RMS
Learn how to import and analyze data, build a structural model, flow simulation grid and geological modeling grid, model facies and petrophysical data, compute volumetrics and assess the impact of uncertainty on the volumes.
Pre-requisites: None.
Duration: 3 day(s)

RMS201 - Grid Design and Upscaling using Aspen RMS
This course covers grid construction requirements, process and tools, the upscaling techniques and the options for exporting grid data and importing a simulation model.
Pre-requisites: Attended RMS101: Introduction to Aspen RMS.
Duration: 1.5 day(s)

RMS202 - Advanced Gridding in Aspen RMS
Learn about more advanced grid construction settings, tools and post-processing options.
Pre-requisites: Attended RMS101: Introduction to Aspen RMS; RMS 201: Grid Design and Upscaling using Aspen RMS.
Duration: 0.5 day(s)

RMS211 - Advanced Property Modeling using Aspen RMS
Learn how to use the tools in RMS to model facies properties in clastic environments and petrophysical properties (porosity, permeability) in shoreface, fluvial and turbidite reservoirs.
Pre-requisites: Attended RMS101: Introduction to Aspen RMS.
Duration: 2-3 day(s)

RMS221 - Structural Uncertainty Modeling in Aspen RMS
Learn how to use the Horizon Uncertainty Modeling job (HUM) and Fault Uncertainty Modeling job (FUM) to assess the impact of uncertainties on the structural model.
Pre-requisites: Attended RMS101: Introduction to Aspen RMS.
Duration: 2 day(s)

RMS222 - Advanced Horizon Uncertainty Modeling in Aspen RMS - Well Data
Learn how to include well trajectory, well picks and azimuth information to constrain the horizons and define uncertainty in the Horizon Uncertainty Modeling job. This course follows-up on RMS221
Pre-requisites: Attended RMS101: Introduction to Aspen RMS, RMS221; Structural Uncertainty Modeling in Aspen RMS.
Duration: 0.5 day(s)

RMS231 - Dynamic Well Modeling using Aspen RMS
Learn how RMS can be used to define dynamic well data as input to a flow simulation. The course covers the RMS event model, import of completion data and production data, preparation of flow model data, and export of keywords to the flow simulator.
Pre-requisites: Attended RMS101: Introduction to Aspen RMS.
Duration: 1.5 day(s)

RMS301 - Using Aspen RMS Python API for Subsurface Engineering
Learn how to use the Aspen RMS Python API and Python scientific libraries to automate, customize, and optimize subsurface workflows through hands-on data analysis, quality control, and integration exercises.
Pre-requisites: Attended RMS101: Introduction to Aspen RMS, basic Python knowledge.
Duration: 2 day(s)

SEI101 – Multi-Survey (2D/3D) Interpretation using Aspen SeisEarth
Learn how to examine data in Integrated Canvas, calibrate wells to seismic data, perform structural interpretation of target features, create fault outlines, map boundaries and multi-survey maps, extract attributes and much more.
Pre-requisites: None.
Duration: 4 day(s)

SEI111 – Rock Type Classification using Machine Learning in Aspen SeisEarth
Learn how to use a unique machine learning approach to predict rock facies away from the wellbore using well and seismic data with Aspen SeisEarth.
Pre-requisites: Attended SEI101: Multi-Survey (2D/3D) Seismic interpretation using Aspen SeisEarth.
Duration: 0.5 day(s)

SEI112 – Attribute Clustering using Machine Learning in Aspen SeisEarth
Learn how to use unsupervised machine learning for subsurface characterization using seismic data.
Pre-requisites: Attended SEI101: Multi-Survey (2D/3D) Seismic interpretation using Aspen SeisEarth.
Duration: 0.5 day(s)

SEI113 – Waveform Classification using Machine Learning in Aspen SeisEarth
Learn how to use a unique machine learning approach to delineate subtle variations in the seismic response associated with reservoir characteristics with Aspen SeisEarth.
Pre-requisites: Attended SEI101: Multi-Survey (2D/3D) Seismic interpretation using Aspen SeisEarth.
Duration: 0.5 day(s)

SKG101 - Fundamentals of Aspen SKUA
Familiarize yourself with the SKUA interface and processes for loading, reviewing and preparing data.
Pre-requisites: Background in geoscience.
Duration: 1.5 day(s)

SKG111 – Velocity Modeling and Calibration using Aspen SKUA
Learn how to use SKUA modeling technology to build geologically constrained velocity models and perform efficient time-to-depth conversion.
Pre-requisites: Attended SKG201: Modeling Reservoir Architecture using Aspen SKUA or a background in geoscience and some experience with Aspen SKUA.
Duration: 2 day(s)

SKG201 – Modeling Reservoir Architecture using Aspen SKUA
Learn how to use SKUA modeling technology to create geologically accurate structural models, geologic grids and flow simulation grids.
Pre-requisites: Attended SKG101: Fundamentals of Aspen SKUA and a background in geoscience.
Duration: 3 day(s)

SKG202 – Data Analysis and Property Modeling using Aspen SKUA
Learn how to use the Data Trend Analysis workflow and the Reservoir Properties workflow to create robust and realistic 3D models of the lithology, porosity, and permeability, and how to perform reservoir volumes computation and post-processing.
Pre-requisites: Attended SKG101: Fundamentals of Aspen SKUA and SKG201: Modeling Reservoir using Aspen SKUA.
Duration: 2 day(s)

SKG223 – 3D Kinematic Restoration using Kine3D-3 in Aspen SKUA
Using different datasets, learn how to execute complete restoration studies and analyze the results.
Pre-requisites: Attended SKG101: Fundamentals of Aspen SKUA and a background in geoscience.
Duration: 1.5 day(s)

SKG301 – Automating Processes using Macros in Aspen SKUA
Learn how to use macros (small programs) in Aspen SKUA to automate common tasks and save time.
Pre-requisites: Attended SKG101: Fundamentals of Aspen SKUA or a background in geoscience and some experience with Aspen SKUA.
Duration: 1.5 day(s)

SKG121 – Well Correlation using Aspen SKUA or StratEarth
Learn how to use the tools in SKUA or StratEarth to pick new markers, correlate existing markers, consolidate existing marker sets and save the results into the database.
Pre-requisites: Background in geology or geophysics.
Duration: 3 day(s)

SUS-S111 – Carbon Capture and Storage using Aspen SKUA
Apply the advanced geological modeling capabilities of Aspen SKUA to the specific context of Carbon Capture and Storage. Using a real dataset of a field used for carbon sequestration, you will learn various techniques for creating a detailed 3D geological model to predict the behavior of CO2 storage sites and assess the reservoir's storage capacity.
Pre-requisites: Background in geology or geophysics and some familiarity with Aspen SKUA.
Duration: 2 day(s)

SUS-S121 – Designing a Closed-Loop Well using Aspen METTE for Geothermal Applications
Familiarize yourself with the Aspen METTE interface and processes by executing a forecasting study for a closed-loop well for geothermal application.
Pre-requisites: Some expertise in the field of geothermal energy.
Duration: 1 day(s)

SUS-S231 – Salt Modeling for Hydrogen Storage using Aspen SeisEarth and Aspen SKUA
Generating an accurate interpretation and model of the subsurface is a crucial step in optimizing hydrogen storage in salt formations. Learn how to interpret and model salt surfaces, create 3D structural models and model properties within a salt intrusion.
Pre-requisites: Background in geology or geophysics and some familiarity with Aspen SeisEarth and Aspen SKUA.
Duration: 3 day(s)

TEM102 – Introduction to Aspen Tempest ENABLE
Learn how to perform appraisal, history matching, prediction and optimization workflows using Tempest ENABLE.
Pre-requisites: None.
Duration: 2 day(s)

TEM103 – Post-Processing Simulation Results using Aspen Tempest VIEW
Load and analyze multiple simulation models in Aspen Tempest VIEW using 2D summary plots, 3D views, calculators, and advanced analysis features such as history matching, streamlines, and drainage matrices.
Pre-requisites: None.
Duration: 1 day(s)

TEM110 – Importing and Post-Processing Ensemble Data in Aspen Tempest ANALYTICS or ENABLE
Import simulation runs and learn how to use Aspen Tempest interactive dashboard to postprocess ensembles of data generated during history matching or optimization workflows
Pre-requisites: None.
Duration: 0.5 day(s)

VEL101 – Velocity Modeling and Time to Depth Conversion
Learn how to use the Aspen GeoDepth/SeisEarth Velocity Modeling toolkit to perform 2D and 3D visualization, model building from structure-limited and non-structural velocity sources, integration of well and seismic data, calibration to wells, basic geostatistical mapping, Constrained Velocity Inversion, building a velocity volume, estimating velocity gradients, and much more.
Pre-requisites: Background in geology or geophysics.
Duration: 3 day(s)

Supply Chain Management

SCM101 – Introduction to Aspen Plant Scheduler
Learn how Aspen SCM: Plant Scheduler (PS) can be used for data management, understanding the planning board, schedule generation, schedule and scenario analysis, and publishing.
Pre-requisites: None.
Duration: 2 day(s)

SCM102 - Introduction to Aspen Plant Scheduler Configuration for Modelers
Learn how Aspen SCM: Supply Chain Planner (SCP) can be used by planners for data management, plan generation and analysis, what-if analysis, and publishing.
Pre-requisites: None.
Duration: 2 day(s)