

Training Course Data Sheet	
<h1>Advanced Aspen PIMS™</h1>	Course Number: SP815
	Duration: 5 days
	CEUs Awarded: 3.5
	Level: Advanced

<p>Objectives</p> <ul style="list-style-type: none"> Provide insight into the most sophisticated aspects of Aspen PIMS modeling. Emphasis is placed on nonlinear solution technology (distributive recursion and nonlinear programming) and sophisticated model structures <p>Who Should Attend</p> <ul style="list-style-type: none"> The participant should have a good understanding of optimization and Aspen PIMS. Typically, participants have many years of optimization experience and are concerned with the more detailed aspects of the system. Many participants have taken Essential Aspen PIMS and Intermediate Aspen PIMS and wish to learn about additional techniques used to model difficult planning problems 	<p>Approach</p> <ul style="list-style-type: none"> Lectures and class discussions allow the participants to share questions and ideas on how to implement model structure to solve difficult problems The class problems are designed to illustrate advanced modeling and troubleshooting techniques <p>Prerequisites</p> <ul style="list-style-type: none"> Must have attended the 'Intermediate Aspen PIMS' training course plus at least one year of Aspen PIMS use after taking the Intermediate course
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Advanced Aspen PIMS™ Course Agenda

- Advanced Topics in:
 - Distributive Recursion
 - Mixed-Integer Programming
 - Crude Distillation
 - Model Validation and Troubleshooting
 - Product Blending, including Aspen Blend Model Library
 - Solution Evaluation
 - Advanced Modeling Techniques, including throughput dependent yields, constant operating conditions, subtractive recursion, quality cross products, contaminant removal, and quality dependent capacities
 - Aspen PIMS Advanced Optimization, including XNLP, Advanced Optimization Analysis, Global Optimization, Nonlinear Equations and External Models, and Shortcut Distillation
 - Aspen PIMS Simulator Interface
 - Extended Tags
 - Class Problems: Provide students with hands-on experience in solving problems in Distributive Recursion, Mixed-Integer Programming, Blending, PIMS-SI, and advanced topics in complex model configuration
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Aspen Technology, Inc. awards Continuing Education Units (CEUs) for training and development activities conducted by our organization in accordance with the definition established by the International Association of Continuing Education & Training (IACET). One CEU is granted for every 10 hours of class participation.