

Training Course Data Sheet	
<h1>Sustaining APC Benefits with Aspen Watch™</h1>	Course Number: MA325
	Duration: 5 days
	CEUs Awarded: 3.5
	Level: Advanced

<p>Objectives</p> <ul style="list-style-type: none"> Learn how to use Aspen Watch Key Performance Indicators (KPI) as a quick way to analyze Aspen DMCplus® controller performance Learn how to use Aspen PID Watch to troubleshoot PID loop performance Learn how to detect and repair model mismatch in Aspen DMCplus controllers Learn how to troubleshoot the Aspen DMCplus steady state optimization and dynamic move calculation Learn how to use the Aspen Watch Event System to isolate particular events <p>Course Benefits</p> <ul style="list-style-type: none"> Learn how to sustain the benefits that were initially achieved when your control applications were deployed Understand how to deploy Aspen Watch as part of a sustained performance program that also includes Aspen SmartStep™ <p>Who Should Attend</p> <ul style="list-style-type: none"> Engineers who are responsible for maintaining Aspen DMCplus controllers 	<p>Approach</p> <ul style="list-style-type: none"> Course notes describing the workflow of solving problems with Aspen Watch Overview of the most important technologies that comprise Aspen Watch, with emphasis on problem-solving versus software configuration Plentiful hands-on exercises that focus on problem solving in Aspen Watch <p>Prerequisites</p> <ul style="list-style-type: none"> 'Introduction to Multivariable Predictive Control with Aspen DMCplus' training course or equivalent Aspen DMCplus implementation experience. 'Aspen DMCplus Online Tools' course is strongly recommended but not required Familiarity with chemical process engineering and/or process operations Familiarity with the process control computer and the use of the Windows 2000 operating system Attendees should know how to use the following AspenTech software that is part of Aspen Watch: InfoPlus.21 Manager, InfoPlus.21 Administrator, SQLplus Query Writer, Aspen Production Control Web Interface <p>Subsequent Courses</p> <ul style="list-style-type: none"> Aspen APC Best Practices
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Sustaining APC Benefits with Aspen Watch Course Agenda

Day 1: Overview and End-User

- Sustained Performance: The Basics
- Aspen Watch Server
- Aspen Watch Desktop
- Using the Aspen Watch Software: Instructor Demo
- Aspen PID Watch Configuration
- Aspen PID Watch Analysis and Tuning
- Lab exercise: PID Watch Analysis and Tuning

Day 2: Configuration

- Key Performance Indicators (KPI)
- Custom Calculations

Day 3: Advanced Configuration

- Aspen Watch Event System
- Lab exercise: Aspen Watch Event System
- Prediction and Disturbance Analysis
- Lab exercise: Closed Loop and Open Loop Prediction Analysis
- Using Aspen Watch Parameters to Interpret DMCplus Tuning
- Lab exercise: Analyzing DMCplus Dynamic Tuning

Day 4

- Aspen Watch Reporting Using Web-based Reports and Aspen SQLplus

- Lab exercise: Building a Custom KPI
 - Aspen DMCplus Benefits Monitoring
 - Lab exercise: Building a Custom Benefits Calculation
 - Building a Baseline
 - Lab exercise: Generating a Baseline
 - Aspen DMCplus Control Strategy Analysis
 - Lab exercise: Control Strategy Analysis
 - Lab exercise: Generating and Scheduling Web-based Reports
 - Using Aspen Watch to Identify and Correct Control Problems
 - Lab exercise: Detecting Incorrect Steady State Solutions and Correcting LP Costs
 - Lab exercise: Identifying Model Mismatch Errors in a Controller and Repairing the Controller Model
- Day 5**
- Model Repair Using Aspen Smart Audit
 - Lab exercises: Repairing a Model Using Smart Audit
 - Sustained Performance: Best Practices
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